



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
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MCO 1510.83A
C 461
3 Feb 93

MARINE CORPS ORDER 1510.83A

From: Commandant of the Marine Corps
To: Distribution List

Subj: INDIVIDUAL TRAINING STANDARDS (ITS) SYSTEM FOR OPERATIONAL
COMMUNICATIONS OCCUPATIONAL FIELD (OCCFLD) 25

Ref: (a) MCO 1553.1B
(b) MCO 1553.2
(c) MCO 1553.3

Encl: (1) Components of an ITS
(2) ITS Management
(3) Index of Tasks by Training Location, Level of
Training, Sustainment, and Grade to Standard
(4) Common ITS Listing
(5) Training Support
(6) Individual Training Standards for Operational
Communications Occupational Field 25

1. Purpose. To publish the ITS System for OccFld 25.
2. Cancellation. MCO 1510.83
3. Background

a. The references establish the system used to publish all training standards, provide policy, and assign responsibilities for applying the Systems Approach to Training (SAT).

b. ITS's provide a common base of training for all Marines who have the same MOS. They provide the basis for the SAT of all individual training. ITS's are to be used by institutional and unit commanders to determine proficiency of individual Marines, to establish training plans and courses of instruction, and to maintain a progressive and systematic method to monitor training impacts on Individual Career Development Plans.

c. ITS's are derived from Mission Performance Standards which come from combat requirements of the Fleet Marine Forces. Changes to doctrine, force structure, and the introduction of new weapons and equipment will require revision of this Order on a regular basis.

4. Information

a. ITS's are to be used by institutional and unit commanders to design, develop, conduct, and evaluate their individual training of Marines. Institutional commanders will derive Terminal Learning Objectives (TLO) and Enabling Learning Objectives (ELO) from the tasks and performance steps set forth herein. Task lists reported on Course Descriptive Data (CDD) submissions will consist of task titles contained in this Order. Unit commanders will use the tasks contained in this Order as the basis of individual training in their long range, short range, and near term training plans.

b. The ITS's for some of the new and recently introduced equipment reflect the most current information available at the time of publication. In order to keep abreast of this dynamic OccFld, annual reviews and revisions will be conducted.

c. The ITS system for OccFld 25 contains the following:

(1) Enclosure (1) contains the components of an ITS.

(2) Enclosure (2) sets forth the ITS management, as it relates to use and maintenance.

(3) Enclosure (3) is an index of tasks by training location, level of training, sustainment, and grade to standard.

(4) Enclosure (4) is a listing of tasks common to two or more MOS's in OccFld 25.

(5) Enclosure (5) lists training support in four categories:

(a) Appendix A, Training Devices, Simulators, and Training Aids.

(b) Appendix B, Training Equipment.

(c) Appendix C, Ammunition, Explosives, and Pyrotechnics.

(d) Appendix D, Training Materials.

(6) Enclosure (6) lists ITS's for each MOS in OccFld 25.

5. Action

a. Commanding General, Marine Corps Combat Development Command (MCCDC)

(1) Ensure that all units and institutions are using this Order to train personnel to the standards required of their grade and MOS.

(2) Ensure that the Marine Corps Institute (MCI) and the Training and Audiovisual Support Centers (TAVSC) provide standardized job aids and other training support requirements to facilitate training in units.

(3) Review, revise, and manage the upkeep of this Order in coordination with FMF Commanders, MOS/OccFld sponsors and with subject matter experts.

(4) Ensure coordination occurs with the Commanding General, Marine Corps System Command (MARCORSYSCOM).

b. Commanding Generals of the Fleet Marine Forces and Supporting Establishment Commands; and Commanders of Separate Organizations not Commanded by a General Officer

(1) Use this Order to implement the SAT process for Operational Communications training.

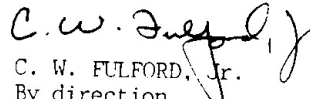
(2) Establish managed on-the-job-training (MOJT) programs to train Marines using the tasks to form the basis of initial, sustainment, or refresher training proficiencies in units both for Operational Communications and command training plans.

6. Submission of Recommendations and Requirements.

Recommendations concerning the contents of this Order are invited. Submit recommendations for change and recommended training requirements to the Commanding General, MCCDC (C 461) via the appropriate chain of command.

7. Mobilization. All ITS's in this Order will remain in effect during mobilization.

8. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.


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By direction

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COMPONENTS OF AN ITS

1. General. ITS's contain six components; task, condition(s), standard, performance steps, reference(s), and administrative instructions.

2. Alphanumeric System. Each ITS is identified by the MOS followed by a series of numbers which identify the Duty Area, and Task.

a. The MOS is identified by four Arabic numbers. The four numbers are the ones assigned to the MOS in the MCO P1200.7 (MOS Manual). For the Field Radio Operator MOS, the numeric designators would be 2531.X.X.

b. Duty area are identified by ascending Arabic numerals and are numbered consecutively by MOS. The designator for the first duty area under MOS 2531 would be 2531.1.X.

c. Tasks within a duty area are numbered consecutively. The first task under the first duty area of MOS 2531 is numbered 2531.1.1. The second task under the third duty area of MOS 2531 is numbered 2531.3.2, and so forth.

3. ITS Components

a. Task. The task describes what a Marine has to do. It is a clearly stated, performance oriented action requiring a learned skill. Knowledge or enrichment topics which are required for the performance of a specific task are included in the administrative instructions. This type of information may very well comprise a separate class with its own TLO/ELO, but is not a separate task.

b. Condition(s). The conditions set forth the real world or wartime circumstances in which the tasks are to be performed. This element of an ITS underscores "realism" in training. When resources or safety requirements limit the conditions, this should be stated. It is important to understand that the conditions set forth in this Order are the minimum, and may be adjusted when applicable.

c. Standard. A standard is inviolate. It is not guidance, but a very carefully worded statement which sets the proficiency level expected when the task is performed. The standard should summarize the performance steps.

d. Performance Steps. There must be at least two performance steps for each task. Performance steps specify actions required to fulfill the proficiency established by the standard.

e. Reference(s). Reference(s) are doctrinal publications which provide the authority vested in the performance steps and references. References should be publications which are readily available.

f. Administrative Instructions. Administrative instructions provide the trainer/instructor with special circumstances relating to the ITS such as safety, real world limitations, and knowledge or enrichment topics which may be a prerequisite to successful accomplishment of the ITS.

ENCLOSURE (1)

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ITS MANAGEMENT

1. ITS Use

a. ITS's are the basis for all individual training in units and formal schools. Since ITS's are written for every MOS they specify every proficiency Marines are required to achieve as individuals in support of their unit combat missions.

b. ITS's provide measures of performance that must be used by unit commanders to both diagnose individual deficiencies and to evaluate training. Deficiencies should be recorded and scheduled on future training plans. ITS's which are mastered should be recorded in individual training records and scheduled for sustainment/refresher training in the future.

c. Institution commanders are responsible for providing instruction based on ITS's. These selected ITS's appear as tasks on item number 24 of the Course Descriptive Data. Using the SAT process, institutional commanders formulate programs of instruction (POI) which fulfill the requirements of the operating forces.

d. Unit and institution commanders must work in tandem so that individuals continue to receive instruction until mandated proficiencies are achieved. Individual training cannot and should not cease upon graduation from a formal school. Schools do not have the resources (people, time, money) to teach every ITS required for MOS proficiency. Unit commanders must recognize this and continue individual training. When Marines do achieve proficiencies, unit commanders must systematically record these proficiencies and establish periodic sustainment training according to the frequency set forth in enclosure (3).

2. ITS Maintenance

a. ITS's exist because of the threat. Changes which occur must be reflected in ITS's as a team effort of the formal schools, the operating forces, and staff agencies at Headquarters, U.S. Marine Corps and at the Marine Corps Combat Development Command. Changes in the threat, new weapons/equipment and doctrine will require new or updated training proficiencies.

b. ITS's are validated when they are used by institution and unit commanders. Changes can be initiated by units, institutions, or higher headquarters. In order to ensure quality training, ITS's must be updated continuously. Input will be systematically collected, staffed, and incorporated into ITS's at least annually.

c. ITS users should be critical of the ITS's as a whole as they support or fail to support a particular MOS.

d. Specific components of an ITS should also be examined for realism and pertinence.

e. ITS Management is dynamic. User maintenance is the key to refining proficiencies which best serve unit missions.

ENCLOSURE (2)

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INDEX OF TASKS BY TRAINING LOCATION, LEVEL OF TRAINING,
SUSTAINMENT, AND GRADE TO STANDARD

1. This enclosure identifies where ITS's are taught, Training Location; the Level of Training regarding proficiency, "P" for preliminary, not to standard, and "S" for trained to standard; and the lowest grade required to demonstrate proficiency in each ITS.
2. The Training Location is either Formal School (FS) or MOJT.
3. Sustainment training is always the responsibility of the unit commander. The number in the MOJT column represents the number of months between evaluation or retraining to maintain the proficiency required by the standard.

TASK NUMBER	TASK	FS	MOJT SUST	Grade
MOS 2500, BASIC OPERATIONAL COMMUNICATOR				
2500.1.1	PLAN MOBILE ELECTRIC POWER GENERATOR (MEPG) SUPPORT FOR COMMUNICATIONS OPERATIONS	P	S/6	SGT
2500.1.2	DIRECT HANDLING OF BATTERIES		S/6	CPL
2500.1.3	PLAN EQUIPMENT GROUNDING PROCEDURES	P	S/6	CPL
2500.1.4	PLAN JOINT/COMBINED INTER/INTRA OPERABILITY		S/12	SSGT
2500.1.5	PREPARE USMTF AND GENADMIN MESSAGES	P	S/12	SSGT
2500.1.6	PLAN/ENACT ELECTROMAGNETIC INTERFERENCE (EMI) CONTROL MEASURES		S/6	SSGT
2500.2.1	CAMOUFLAGE COMMUNICATIONS EQUIPMENT		S/6	PFC
2500.2.2	DIRECT CAMOUFLAGING OF COMMUNICATION ASSETS		S/6	CPL
2500.3.1	WEATHERPROOF COMMUNICATIONS EQUIPMENT		S/3	PFC
2500.4.1	PERFORM OPERATOR LEVEL PREVENTIVE MAINTENANCE ON MOBILE ELECTRIC POWER GENERATORS (MEPG)		S/3	PFC
2500.4.2	MANAGE MIMMS DOCUMENTS (LM2, DPR, ERO)	P	S/6	SSGT
2500.4.3	SUPERVISE MOTOR TRANSPORT MAINTENANCE		S/6	SSGT
2500.5.1	PREPARE COMMUNICATIONS ASSETS FOR EMBARKATION		S/12	CPL
2500.5.2	EMBARK COMMUNICATIONS EQUIPMENT		S/12	PFC
2500.6.1	CONDUCT SKILL PROGRESSION TRAINING FOR COMMUNICATIONS PERSONNEL		S/12	CPL
MOS 2502, COMMUNICATION OFFICER				
2502.1.1	PLAN FOR AMPHIBIOUS COMMUNICATIONS	P	S/12	2NDLT
2502.1.2	PLAN A COMMUNICATION SYSTEM	P	S/12	2NDLT
2502.1.3	PLAN COMMUNICATION SECURITY	S	12	2NDLT
2502.1.4	PLAN ESTABLISHMENT COMMUNICATIONS ELEMENT OF A COMMAND POST	P	S/12	2NDLT
2502.1.5	PLAN DATA COMMUNICATIONS	S	12	2NDLT
2502.1.6	PLAN COMMUNICATIONS FOR JOINT/COMBINED OPERATIONS	S	12	CAPT
2502.1.7	WRITE COMMUNICATIONS -ELECTRONICS ESTIMATE	S	12	2NDLT

ENCLOSURE (3)

NUMBER	TASK	TASK		SUST	FS	MOJT	Grade
2502.1.8	WRITE PARAGRAPH 5 TO AN OPERATION ORDER		S	12	2NDLT		
2502.1.9	DRAFT COMMUNICATIONS GUARD SHIFT		S	12	2NDLT		
2502.1.10	DRAFT TELECOMMUNICATIONS SERVICE REQUEST (TSR)			S/12	1STLT		
2502.1.11	WRITE COMMUNICATIONS STANDING OPERATING PROCEDURE		P	S/12	2NDLT		
2502.1.12	PREPARE SATELLITE ACCESS REQUEST		P	S/12	1STLT		
2502.1.13	PLAN A TACTICAL COMMUNICATION/ MESSAGE CENTER		P	S/12	1STLT		
2502.1.14	PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS		S	12	2NDLT		
2502.2.1	ENFORCE PREVENTIVE ECCM TECHNIQUES		P	S/12	2NDLT		
2502.2.2	MANAGE INSTALLATION OF A FIELD WIRE SYSTEM		P	S/12	2NDLT		
2502.2.3	MANAGE INSTALLATION OF A TACTICAL COMMUNICATION CENTER		P	S/12	1STLT		
2502.2.4	MANAGE INSTALLATION OF A FIELD RADIO SYSTEM		P	S/12	2NDLT		
2502.3.1	MANAGE OPERATION OF OPERATION SYSTEM CONTROL		P	S/12	1STLT		
2502.3.2	MANAGE OPERATION OF A TECHNICAL CONTROL FACILITY (TECHCONFAC)		P	S/12	1STLT		
2502.4.1	PREPARE MODIFICATION OF ALLOWANCE (MOA) REQUEST			S/12	1STLT		
2502.4.2	MANAGE THE MAINTENANCE SUPPORT OF A DEPLOYED UNIT			S/12	2NDLT		
2502.4.3	MANAGE MIMMS IN SUPPORT OF UNIT MAINTENANCE		P	S/12	2NDLT		
2502.4.4	PLAN SUPPLY REQUIREMENTS FOR COMMUNICATIONS		S	12	2NDLT		
2502.5.1	PLAN EMBARKATION OF COMM- ELECT EQUIPMENT AND SUPPLIES		P	S/12	1STLT		
2502.6.1	MANAGE COMMUNICATION TRAINING		P	S/12	1STLT		
MOS 2503, TELECOMMUNICATIONS OPERATIONS OFFICER							
2503.1.1	DEVELOP COMMUNICATIONS ESTIMATE		S	12	CWO		
2503.1.2	CONDUCT COMMUNICATION SITE SURVEY		P	S/12	CWO		
2503.1.3	PREPARE COMMAND AND CONTROL SYSTEMS ANNEX		P	S/12	CWO		
2503.1.4	PREPARE FOR AMPHIBIOUS COMMUNICATIONS		P	S/12	CWO		
2503.1.5	PLAN COMMUNICATION SUPPORT FOR DATA SYSTEMS		P	S/12	CWO		
2503.1.6	PLAN JOINT INTEROPERABILITY FOR THE COMMAND		P	S/12	CWO		
2503.1.7	PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS		P	S/12	CWO		
2503.1.8	DRAFT COMMUNICATIONS GUARD SHIFT		S	12	CWO		
2503.1.9	PREPARE SATELLITE ACCESS REQUEST		P	S/12	CWO		
2503.1.10	MAINTAIN COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS SOP		P	S/12	CWO		
2503.1.11	ESTABLISH LIAISON WITH COMMUNICATION AGENCIES			S/12	CWO		
2503.1.12	COORDINATE COMMAND'S FREQUENCY ALLOCATION			S/12	CWO		
2503.1.13	ADVISE ON LOCATION, ECHELONMENT, AND MOVEMENT OF COMMAND POST		P	S/12	CWO		

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2503.2.1	COORDINATE LOCATION, ECHELONMENT OF COMMAND POST	P	S/12	CWO
2503.2.2	DIRECT EMPLOYMENT OF COMMUNICATION ASSETS	S	12	CWO
2503.3.1	MAINTAIN OPERATIONAL SYSTEM CONTROL/TECHCONFAC	P	S/12	CWO
2503.3.2	MONITOR COMMUNICATION SECURITY PROCEDURES	P	S/12	CWO
2503.3.3	RESOLVE COMMUNICATIONS RELIABILITY/AVAILABILITY PROBLEMS	P	S/12	CWO
2503.4.1	DETERMINE PROCUREMENT/ ALLOCATION OF COMM EQUIPMENT		S/12	CWO
2503.5.1	EMBARK COMM-ELEC EQUIPMENT AND SUPPLIES		S/12	CWO
2503.6.1	DIRECT COMMUNICATION TRAINING FOR THE COMMAND		S/12	CWO
MOS 2512, FIELD WIREMAN				
2512.1.1	WRITE WIRE SYSTEM SUPPORT DOCUMENTS FOR AN INFANTRY BATTALION OR COMPARABLE UNIT	S	S/12	SGT
2512.2.1	DIRECT INSTALLATION OF THE WIRE SYSTEM		S/6	CPL
2512.2.2	INSTALL AN/UIQ-10(V) PUBLIC ADDRESS SET	P	S/12	
2512.2.3	INSTALL C-6709/G RADIO SET CONTROL	P	S/12	PFC
2512.2.4	INSTALL CX-11230()/G CABLE ASSEMBLY FOR UNIT LEVEL CIRCUIT SWITCH	P	S/12	PFC
2512.2.5	INSTALL PP-2953/U POWER SUPPLY SET	S	12	PFC
2512.2.6	INSTALL PP-6836/G POWER SUPPLY SET	S	12	PFC
2512.2.7	INSTALL PP-7333 POWER SUPPLY	S	12	PFC
2512.2.8	INSTALL SB-22/PT MANUAL TELEPHONE SWITCHBOARD	S	12	PFC
2512.2.9	INSTALL SB-3614()/TT AUTOMATIC SWITCHBOARD	S	12	PFC
2512.2.10	INSTALL SB-3659()/U COMMUNICATION PATCHING PANEL	P	S/12	PFC
2512.2.11	INSTALL SB-4097/U COMMUNICATION PATCHING PANEL	P	S/12	PFC
2512.2.12	INSTALL TA-954/PT TELEPHONE SET	S	12	PFC
2512.2.13	INSTALL TA-312/PT TELEPHONE SET	S	12	PFC
2512.2.14	INSTALL TA-838/TT TELEPHONE SET	S	12	PFC
2512.2.15	INSTALL TA-937/GCC TELEPHONE LINE EQUALIZER	P	S/12	PFC
2512.2.16	INSTALL TA-938/G TELEPHONE SET	P	S/12	PFC
2512.2.17	INSTALL TA-1042 TELEPHONE SET	P	S/12	PFC
2512.2.18	INSTALL TA-977/PT TONE SIGNALING ADAPTER TO SB-22/PT MANUAL TELEPHONE SWITCHBOARD	P	S/12	PFC
2512.2.19	INSTALL TSEC/HYX-57 WIRELINE ADAPTER		S/12	PFC
2512.2.20	INSTALL STU-III SECURE TELEPHONE SET	P	S/12	PFC
2512.2.21	DIRECT STU-III INSTALLATION		S/12	CPL
2512.2.22	BURY FIELD CABLE	S	12	PFC

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2512.2.23 . . .	INSTALL DISTRIBUTION BOX	S	12	PFC
2512.2.24 . . .	CONSTRUCT A DISTRIBUTION FRAME USING TERMINAL BOXES		S/12	CPL
2512.2.25 . . .	MARK CABLE ROUTES ON TOPOGRAPHIC MAP		S/12	CPL
2512.2.26 . . .	INSTALL FIELD CABLE CX-4566 SERIES	S	12	PFC
2512.2.27 . . .	INSTALL LANCEPOLE PO-2 FOR OVERHEADING FIELD WIRE	S	6	PFC
2512.2.28 . . .	INSTALL BACKUP POWER FOR SB-3614()/TT USING VEHICLE POWER	P	S/12	PFC
2512.2.29 . . .	SPLICE FIELD WIRE	S	12	PFC
2512.3.1 . . .	DIRECT OPERATION OF WIRE SYSTEM		S/12	CPL
2512.3.2 . . .	DIRECT OPERATION DIGITAL BACKBONE NETWORK		S/12	CPL
2512.3.3 . . .	OPERATE AN/UIQ-10(V) PUBLIC ADDRESS (PA) SET	P	S/12	PFC
2512.3.4 . . .	CLIMB/DESCEND POLE/TREE UTILIZING LC-240 CLIMBING EQUIPMENT		S/12	PFC
2512.3.5 . . .	OPERATE PP-2953/U POWER SUPPLY	P	S/12	PFC
2512.3.6 . . .	OPERATE PP-6836/G POWER SUPPLY	S	12	PFC
2512.3.7 . . .	OPERATE SB-22/PT MANUAL TELEPHONE SWITCHBOARD	S	12	PFC
2512.3.8 . . .	OPERATE SB-3614()/TT AUTOMATIC TELEPHONE SWITCHBOARD	S	12	PFC
2512.3.9 . . .	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	S	12	PFC
2512.3.10 . . .	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)		S/12	PFC
2512.3.11 . . .	INSPECT UTILITY POLE		S/12	LCPL
2512.3.12 . . .	OPERATE STU-III SECURE TELEPHONE SET	P	S/12	PFC
2512.4.1 . . .	DIRECT WIRE PREVENTIVE MAINTENANCE (PM)		S/12	CPL
2512.4.2 . . .	PERFORM PREVENTIVE MAINTENANCE ON TACTICAL SWITCHBOARDS	P	S/12	PFC
2512.4.3 . . .	PERFORM PREVENTIVE MAINTENANCE ON TELEPHONE INSTRUMENTS	P	S/12	PFC
2512.4.4 . . .	REPAIR WIRE FAULTS	S	12	PFC
2512.4.5 . . .	PERFORM PREVENTIVE MAINTENANCE ON A PUBLIC ADDRESS SET		S/12	PFC
2512.4.6 . . .	PERFORM PREVENTIVE MAINTENANCE ON CX-11230()/G		S/12	PFC
2512.4.7 . . .	PERFORM PREVENTIVE MAINTENANCE ON LC-240 CLIMBING EQUIPMENT		S/12	PFC
2512.4.8 . . .	PERFORM PREVENTIVE MAINTENANCE ON A POWER SUPPLY SET		S/12	PFC
2512.4.9 . . .	PERFORM PREVENTIVE MAINTENANCE ON A CX-4766 COMMUNICATION PATCHING PANEL		S/12	PFC
2512.4.10 . . .	PERFORM PREVENTIVE MAINTENANCE ON TA-937/GCC TELEPHONE LINE EQUALIZER		S/12	PFC
2512.4.11 . . .	PERFORM PREVENTIVE MAINTENANCE ON TSEC/HYX-57 WIRE LINE ADAPTER		S/12	PFC
2512.4.12 . . .	PERFORM PREVENTIVE MAINTENANCE ON DISTRIBUTION BOX		S/12	PFC

<u>TASK NUMBER</u>	<u>TASK</u>	<u>FS</u>	<u>MOJT SUST</u>	<u>Grade</u>
MOS 2513, CONSTRUCTION WIREMAN				
2513.1.1	PLAN A COMMERCIAL CABLE SYSTEM	S	12	SGT
2513.2.1	DIRECT CONSTRUCTION OF AN OVERHEAD CABLE SYSTEM	S	12	CPL
2513.2.2	CONSTRUCT AN OVERHEAD CABLE SYSTEM	S	12	PFC
2513.2.3	PULL POLES USING M-876 TELEPHONE MAINTENANCE TRUCK	S	12	LCPL
2513.2.4	SUPERVISE LOADING/UNLOADING OF CABLE REELS AND POLES ON K-37 CABLE/POLE TRAILER	S	12	CPL
2513.2.5	LOAD/UNLOAD COMMERCIAL CABLE REELS ON K-37 CABLE/POLE TRAILER	S	S/12	PFC
2513.2.6	LOAD/UNLOAD POLES ON K-37 CABLE/POLE TRAILER	S	12	PFC
2513.2.7	ARRANGE M-876 TELEPHONE MAINTENANCE TRUCK FOR AUGERING	S	12	LCPL
2513.2.8	ARRANGE M-876 TELEPHONE MAINTENANCE TRUCK FOR OVERHEAD WORK	S	12	LCPL
2513.2.9	LASH COMMERCIAL CABLE TO MESSENGER USING LC-231 LASHING MACHINE, CABLE GUIDE, AND CABLE SUPPORT	S	12	LCPL
2513.2.10	SET POLES USING M-876 TELEPHONE MAINTENANCE TRUCK	S	12	CPL
2513.2.11	SEND AND PACK COMMERCIAL CABLES IN MANHOLES	S	12	CPL
2513.2.12	BURY CABLE USING A CABLE PLOW AND OR DITCH WITCHES	S	12	PFC
2513.2.13	CLEAR BLOCKED CONDUITS USING ROD KITS AND REAMERS	S	12	PFC
2513.2.14	CONSTRUCT SURFACE MOUNTED CONDUIT SYSTEMS	S	12	PFC
2513.2.15	CUT ASPHALT AND CONCRETE USING PIONJAR	S	12	PFC
2513.2.16	CUT TELEPHONE POLES USING CHAIN SAW	S	12	PFC
2513.2.17	INSTALL CONDUIT UNDER OBSTRUCTIONS USING A MOLE BORING MACHINE	S	12	PFC
2513.2.18	INSTALL DOWN GUYS AND SPAN GUYS FOR POLE SUPPORT	S	12	PFC
2513.2.19	INSTALL WIRES IN CONDUIT SYSTEMS	S	12	PFC
2513.2.20	PERFORM TAMPING USING PIONJAR	P	12	PFC
2513.2.21	RECOVER COMMERCIAL CABLE		S/12	LCPL
2513.3.1	OPERATE M-876 TELEPHONE MAINTENANCE TRUCK UNDER UNUSUAL CONDITIONS	S	12	PFC
2513.4.1	DIRECT PREVENTIVE MAINTENANCE (PM) ON WIRELINE CONSTRUCTION EQUIPMENT	P	S/12	CPL
2513.4.2	PERFORM PREVENTIVE MAINTENANCE ON WIRELINE CONSTRUCTION EQUIPMENT	P	S/12	PFC
MOS 2515, ULS CENTRAL OFFICE OPERATOR/MAINTAINER				
2515.1.1	ASSIST UNIT LEVEL CIRCUIT SWITCH (ULCS) STAFF PLANNER WITH ULCS PLANNING	S	12	SSGT
2515.2.1	INSTALL CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42	(V) S	12	CPL
2515.2.2	INITIALIZE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42	(V) S	12	CPL
2515.2.3	INSTALL SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865	(P)/TTC S	12	LCPL
2515.2.4	INITIALIZE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865	(P)/TTC (P)/TTC		

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2515.3.1	PERFORM COMSEC OPERATING/INDEX PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	P	S/12	SSGT
2515.3.2	PERFORM SUPERVISOR OPERATING/INDEX PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	S	12	SGT
2515.3.3	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	S	12	CPL
2515.3.4	OPERATE THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) UNDER NORMAL CONDITIONS	S	12	CPL
2515.3.5	OPERATE THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) UNDER EMERGENCY CONDITIONS	S	12	SGT
2515.3.6	PERFORM SUPERVISOR OPERATING/INDEX PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	S	12	SGT
2515.3.7	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	S	12	LCPL
2515.3.8	OPERATE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC UNDER NORMAL CONDITIONS	S	12	LCPL
2515.3.9	OPERATE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC UNDER EMERGENCY CONDITIONS	S	12	LCPL
2515.4.1	PERFORM CALL SERVICE ATTENDANT (CSA) MAINTENANCE ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	S	12	CPL
2515.4.2	PERFORM OPERATOR/MAINTAINER MAINTENANCE ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	S	12	CPL
2515.4.3	PERFORM CALL SERVICE ATTENDANT (CSA) MAINTENANCE ON THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	S	12	LCPL
2515.4.4	PERFORM INSTALLER/MAINTAINER MAINTENANCE ON THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	S	12	CPL
2515.5.1	PREPARE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) FOR EMBARKATION/TRANSPORT	P	S/12	CPL
2515.5.2	PREPARE THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC FOR EMBARKATION	P	S/12	LCPL
MOS 2519, WIRE CHIEF				
2519.1.1	PLAN WIRE COMMUNICATIONS	P	S/12	SGT
2519.1.2	PLAN A COMMERCIAL CABLE SYSTEM		S/12	SSGT
2519.1.3	PLAN ROUTE FOR FIELD WIRE AND CABLE LAYING	S	12	SGT
2519.1.4	PLAN A TACTICAL DIGITAL SWITCHING NETWORK	P	S/12	SGT
2519.1.5	PLAN FIBER OPTIC CABLE (FOCS)	S	12	SSGT
2519.1.6	PLAN STU-III OPERATIONS	P	S/12	SSGT
2519.1.7	PLAN DNVVT OPERATIONS	S	12	SSGT
2519.1.8	PLAN DSVT OPERATIONS	S	12	SSGT
2519.1.9	PLAN ULCS OPERATIONS	S	12	SSGT

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2519.2.1 . . .	SUPERVISE INSTALLATION OF THE WIRE SYSTEM	S	12	SSGT
2519.2.2 . . .	DIRECT INSTALLATION OF FOCS	S	12	SGT
2519.2.3 . . .	SUPERVISE STU-III INSTALLATION		S/12	SSGT
2519.2.4 . . .	SUPERVISE INSTALLATION OF DSVT EQUIPMENT		S/12	SSGT
2519.2.5 . . .	SUPERVISE INSTALLATION ULCS EQUIPMENT		S/12	SSGT
2519.3.1 . . .	SUPERVISE OPERATION OF WIRE/CABLE SYSTEM		S/12	SGT
2519.3.2 . . .	SUPERVISE COMMUNICATION SECURITY (COMSEC) FOR A WIRE SECTION	P	S/12	SSGT
2519.3.3 . . .	DIRECT OPERATION OF FOCS	S	12	SGT
2519.3.4 . . .	DIRECT OPERATION ULCS EQUIPMENT	S	12	SSGT
2519.3.5 . . .	SUPERVISE OPERATION DIGITAL BACKBONE NETWORK	S	12	SSGT
2519.4.1 . . .	SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES FOR WIRE/CONSTRUCTION SECTION	P	S/12	SSGT
2519.6.1 . . .	SUPERVISE WIRE COMMUNICATION TRAINING PROGRAM		S/12	SSGT

MOS 2531, FIELD RADIO OPERATOR

2531.2.1 . . .	INSTALL AN/PRC-77 RADIO SET	S	12	PFC
2531.2.2 . . .	INSTALL AN/PSQ-4 POSITION LOCATING REPORTING SYSTEM (PLRS)		S/12	PFC
2531.2.3 . . .	INSTALL PP-2953/U POWER SUPPLY	P	S/12	PFC
2531.2.4 . . .	INSTALL PP-6836/G POWER SUPPLY SET	P	S/12	PFC
2531.2.5 . . .	INSTALL PP-7333 POWER SUPPLY	P	S/12	PFC
2531.2.6 . . .	INSTALL AN/UXC-7 TACTICAL FACSIMILE SET	P	S/12	PFC
2531.2.7 . . .	INSTALL AN/PRC-68A/KYV-2 RADIO SET	P	S/12	PFC
2531.2.8 . . .	INSTALL AN/GRA-39() RADIO SET CONTROL GROUP	P	S/12	PFC
2531.2.9 . . .	INSTALL AN/GRC-160 RADIO SET	P	S/12	PFC
2531.2.10 . . .	INSTALL AN/PRC-104 RADIO SET	S	12	PFC
2531.2.11 . . .	INSTALL AN/MRC-138 RADIO SET	S	12	PFC
2531.2.12 . . .	INSTALL AN/MRC-110A RADIO SET	S	12	PFC
2531.2.13 . . .	INSTALL AN/PRC-113 RADIO SET	P	S/12	PFC
2531.2.14 . . .	INSTALL AN/VRC-83 RADIO SET	P	S/12	PFC
2531.2.15 . . .	INSTALL AN/PSC-2 DIGITAL COMMUNICATIONS TERMINAL	P	S/12	PFC
2531.2.16 . . .	INSTALL AN/PSC-3 MANPACK SATELLITE TERMINAL	P	S/12	PFC
2531.2.17 . . .	INSTALL VEHICLE MOUNTED SINCGARS RADIO	P	S/12	PFC
2531.2.18 . . .	INSTALL AN/PRC-119A SINCGARS RADIO	P	S/12	PFC
2531.2.19 . . .	INSTALL AN/MRC-140	P	S/12	PFC
2531.2.20 . . .	INSTALL MX-9331B/URC REGENERATIVE REPEATER	P	S/12	PFC

ENCLOSURE (3)

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2531.2.21	INSTALL TSEC/KY-57 COMMUNICATION SECURITY EQUIPMENT	S	12	PFC
2531.2.22	INSTALL TSEC/KY-65 COMMUNICATION SECURITY SYSTEM, PARKHILL	S	12	PFC
2531.2.23	INSTALL TSEC/HYX-57 WIRELINE ADAPTER	P	S/12	PFC
2531.2.24	ERECT RC-292 ANTENNA	P	S/12	PFC
2531.2.25	ERECT AS-2259/GR HF TACTICAL ANTENNA	P	S/12	PFC
2531.2.26	CONSTRUCT LONG WIRE ANTENNA	P	S/12	LCPL
2531.2.27	CONSTRUCT FIELD EXPEDIENT ANTENNA	P	S/12	PFC
2531.2.28	DIRECT INSTALLATION OF FIELD EXPEDIENT ANTENNA		S/12	CPL
2531.3.1	PERFORM PREVENTIVE ECCM TECHNIQUES	S	12	PFC
2531.3.2	DIRECT REMEDIAL ECCM PROCEDURES	P	S/12	CPL
2531.3.3	PERFORM TROUBLESHOOTING PROCEDURES ON A FAULTY RADIO	P	S/12	PFC
2531.3.4	OPERATE AN/GRC-160 RADIO SET	P	S/12	PFC
2531.3.5	OPERATE AN/PRC-77 RADIO SET	S	12	PFC
2531.3.6	OPERATE AN/PSQ-4 PLRS		S/12	PFC
2531.3.7	OPERATE AN/MRC-138 RADIO SET	S	12	PFC
2531.3.8	OPERATE AN/MRC-110A RADIO SET	S	12	PFC
2531.3.9	OPERATE AN/PRC-68A/KYV-2 RADIO SET	P	S/12	PFC
2531.3.10	OPERATE AN/PRC-104 RADIO SET	S	12	PFC
2531.3.11	OPERATE AN/PRC-113 RADIO SET	P	S/12	PFC
2531.3.12	OPERATE AN/VRC-83 RADIO SET	P	S/12	PFC
2531.3.13	OPERATE AN/PSC-2 DIGITAL COMMUNICATION TERMINAL	P	S/12	PFC
2531.3.14	OPERATE AN/PSC-3 MANPACK SATELLITE TERMINAL	P	S/12	PFC
2531.3.15	OPERATE VEHICLE MOUNTED SINGARS RADIO	P	S/12	PFC
2531.3.16	OPERATE AN/PRC-119	P	S/12	PFC
2531.3.17	OPERATE AN/MRC-140	P	S/12	PFC
2531.3.18	OPERATE MX-9331B/URC REGENERATIVE REPEATER	P	S/12	PFC
2531.3.19	OPERATE AN/PPN-19 RADAR BEACON		S/12	PFC
2531.3.20	OPERATE TSEC/KY-57 COMMUNICATION SECURITY EQUIPMENT	S	12	PFC
2531.3.21	OPERATE TSEC/KY-65 COMMUNICATION SECURITY EQUIPMENT	S	12	PFC
2531.3.22	OPERATE TSEC/KYX-15A NET CONTROL DEVICE	P	S/12	CPL
2531.3.23	OPERATE AN/UXC-7 TACTICAL FACSIMILE SET	P	S/12	PFC
2531.3.24	EMPLOY VOICE RADIO TELEPHONE PROCEDURES	S	12	PFC
2531.3.25	CONDUCT AUTOMATIC RETRANSMISSION USING MK-456		S/12	PFC
2531.3.26	MAINTAIN CIRCUIT LOGS	P	S/12	PFC

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2531.3.27	DIRECT OPERATION OF SINGLE CHANNEL RADIO PLAN	P	S/12	CPL
2531.4.1	PERFORM PREVENTIVE MAINTENANCE ON PORTABLE RADIO EQUIPMENT	P	S/12	PFC
2531.4.2	PERFORM PREVENTIVE MAINTENANCE ON MOBILE RADIO EQUIPMENT	P	S/12	PFC
2531.4.3	PERFORM PREVENTIVE MAINTENANCE ON ANTENNAS	P	S/12	PFC
MOS 2532, MULTICHANNEL EQUIPMENT OPERATOR				
2532.1.1	PLAN EMPLOYMENT OF THE AN/MRC-142 RADIO SET	S	12	SGT
2532.1.2	PLAN TEAM ASSIGNMENT FOR AN/MRC-142 RADIO SET		S/12	SGT
2532.2.1	ERECT AS-2236/GRC ANTENNA	S	12	PFC
2532.2.2	INSTALL AN/MRC-135B TERMINAL SET	P	S/12	PFC
2532.2.3	INSTALL AN/MRC-142	S	12	PFC
2532.2.4	ERECT OE-52A ANTENNA SET	S	12	PFC
2532.2.5	ERECT OE-468 MICROWAVE ANTENNA GROUP	S	12	PFC
2532.2.6	DETERMINE OPTIMUM MODE OF PROPAGATION FOR THE AN/MRC-142 RADIO SET	P	S/12	PFC
2532.2.7	CONNECT TSEC/KG-27 COMMUNICATION SECURITY DEVICE TO THE TELEPHONE TERMINAL	S	12	PFC
2532.2.8	DRAW PROFILE GRAPH USING 4/3 EARTH'S RADIUS PROFILE PAPER	S	12	PFC
2532.2.9	INSTALL AN/GRC-201 RADIO SET	S	12	PFC
2532.3.1	OPERATE AN/MRC-135B RADIO SET	P	S/12	PFC
2532.3.2	OPERATE AN/MRC-142	S	12	PFC
2532.3.3	ENERGIZE AN/GRC-201 RADIO SYSTEM	S	12	PFC
2532.3.4	PERFORM AUDIO GAIN ADJUSTMENT ON AN/TCC-72 TELEPHONE TERMINAL	S	12	PFC
2532.3.5	OPERATE TSEC/KG-27 COMMUNICATIONS SECURITY DEVICE WITH AN/TCC-72 TELEPHONE TERMINAL	S	12	PFC
2532.3.6	OPERATE TSEC/KG-94A COMMUNICATIONS SECURITY DEVICE WITH AN/TCC-72 TELEPHONE TERMINAL	S	12	PFC
2532.4.1	PERFORM PREVENTIVE MAINTENANCE (PM) ON MULTICHANNEL RADIO SET	P	S/12	PFC
2532.5.1	PREPARE MULTICHANNEL RADIO EQUIPMENT FOR EMBARKATION		S/12	SGT
MOS 2533, RADIO TELEGRAPH OPERATOR				
2533.3.1	CONDUCT COMMUNICATION OPERATIONS IN INTERNATIONAL MORSE CODE	S	3	PFC
MOS 2534, HIGH FREQUENCY COMMUNICATION CENTRAL OPERATOR				
2534.2.1	INSTALL THE AN/TSC-95 COMMUNICATIONS SYSTEM	S	12	PFC
2534.2.2	INSTALL THE AN/TRQ-35		S/12	PFC
2534.3.1	OPERATE THE AN/TSC-95 COMMUNICATIONS SYSTEM	S	12	PFC

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2534.4.1	PERFORM PREVENTIVE MAINTENANCE (PM) ON THE AN/TSC-95 COMMUNICATIONS SYSTEM	P	S/12	PFC
2534.4.2	PERFORM PREVENTIVE MAINTENANCE (PM) THE AN/TRQ-35		S/12	PFC
2534.5.1	PREPARE THE AN/TSC-95 COMMUNICATIONS SYSTEM FOR EMBARKATION		S/12	CPL
MOS 2535, FLEET SATCOM TERMINAL OPERATOR				
2535.1.1	PLAN AN AN/TSC-96 LINK	S	12	CPL
2535.2.1	INSTALL THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	S	12	LCPL
2535.3.1	OPERATE THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	S	12	LCPL
2535.4.1	PERFORM PREVENTIVE MAINTENANCE (PM) ON THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	P	S/12	LCPL
2535.5.1	PREPARE THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL FOR EMBARKATION		S/12	CPL
MOS 2536, GROUND MOBILE FORCES SATCOM OPERATOR				
2536.2.1	INSTALL THE AN/TSC-85B COMMUNICATION TERMINAL, SATELLITE	P	S/12	LCPL
2536.2.2	INSTALL THE AN/TSC-93B GROUND MOBILE FORCES (GMF) SATELLITE COMMUNICATIONS TERMINAL	P	S/12	LCPL
2536.2.3	INSTALL KG-94A CRYPTOGRAPHIC EQUIPMENT	P	S/12	LCPL
2536.2.4	INSTALL KY-57/TSEC CRYPTOGRAPHIC EQUIPMENT	P	S/12	LCPL
2536.3.1	OPERATE THE AN/TSC-85B COMMUNICATION TERMINAL, SATELLITE	S	12	LCPL
2536.3.2	OPERATE THE AN/TSC-93B GROUND MOBILE FORCES (GMF) SATELLITE COMMUNICATIONS TERMINAL	S	12	LCPL
2536.4.1	PERFORM PREVENTIVE MAINTENANCE (PM) ON GMF TACSAT EQUIPMENT	P	S/12	LCPL
2536.4.2	PERFORM PREVENTIVE MAINTENANCE (PM) ON GMF TACSAT ANTENNAE	P	S/12	LCPL
2536.5.1	PREPARE GMF TACSAT EQUIPMENT FOR EMBARKATION		S/12	SSGT
MOS 2537, RADIO CHIEF				
2537.1.1	PLAN A SINGLE CHANNEL RADIO SYSTEM	S	12	SSGT
2537.1.2	PLAN UHF MULTICHANNEL RADIO COMMUNICATIONS SYSTEM	P	S/12	SSGT
2537.1.3	PLAN SHF COMMUNICATIONS	P	S/12	SSGT
2537.1.4	PLAN SATCOM	P	S/12	SSGT
2537.1.5	PLAN ANDVT OPERATIONS	P	S/12	SSGT
2537.1.6	CONDUCT PROPAGATION PREDICTION	P	S/12	SSGT
2537.1.7	PLAN INTEGRATION OF A TACTICAL COMMUNICATION SYSTEM INTO DCS	P	S/12	SSGT
2537.2.1	SUPERVISE INSTALLATION OF RADIO EQUIPMENT	P	12	SSGT
2537.2.2	SUPERVISE INSTALLATION OF MOBILE ELECTRIC POWER GENERATION SYSTEMS (MEPGS)		S/12	SSGT

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2537.2.3 . . .	SUPERVISE THE INSTALLATION OF ANDVT EQUIPMENT	P	S/12	SSGT
2537.2.4 . . .	SUPERVISE INSTALLATION OF FIELD EXPEDIENT ANTENNAS	P	S/12	SSGT
2537.3.1 . . .	SUPERVISE EXECUTION OF RADIO COMMUNICATION PLAN	S	12	SSGT
2537.3.2 . . .	SUPERVISE SINGARS NET CONTROL FUNCTIONS	P	S/12	SSGT
2537.4.1 . . .	SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES	P	S/12	SSGT
2537.6.1 . . .	CONDUCT RADIO COMMUNICATION TRAINING PROGRAM		S/12	SSGT
MOS 2538, FLEET SATCOM RADIO CHIEF				
2538.1.1 . . .	PLAN A FLEET SATCOM LINK	S	12	SSGT
2538.1.2 . . .	PLAN FLEET SATELLITE COMMUNICATIONS (SATCOM) FOR A MARINE AIR GROUND TASK FORCE (MAGTF)	P	S/12	SSGT
2538.2.1 . . .	DIRECT INSTALLATION OF THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	S	12	SSGT
2538.3.1 . . .	EXECUTE THE FLEET SATELLITE COMMUNICATIONS (SATCOM) PLAN FOR A MARINE AIR GROUND TASK FORCE (MAGTF)	P	S/12	SSGT
MOS 2539, GROUND MOBILE FORCES SATCOM RADIO CHIEF				
2539.1.1 . . .	PLAN A GMF SATCOM LINK	P	S/12	SSGT
2539.1.2 . . .	DRAFT SATELLITE ACCESS REQUEST	P	S/12	SSGT
2539.2.1 . . .	DIRECT INSTALLATION OF GMF SATELLITE COMMUNICATIONS (TACSAT) SITE	S	12	SSGT
2539.2.2 . . .	DIRECT INSTALLATION OF GMF SATELLITE COMMUNICATIONS (TACSAT) SYSTEM	S	12	GYSGT
2539.3.1 . . .	SUPERVISE EXECUTION OF TACSAT PLAN	P	S/12	GYSGT
MOS 2542, COMMUNICATION CENTER OPERATOR				
2542.2.1 . . .	INSTALL AN/UXC-7 TACTICAL FACSIMILE SET	S	12	PFC
2542.2.2 . . .	CONNECT STU-III/DSVT SECURE TELEPHONE TO A COMPUTER		S/12	PFC
2542.2.3 . . .	INSTALL FMF-END USER COMPUTER EQUIPMENT (EUCE)	S	12	PFC
2542.2.4 . . .	INSTALL AN/MSC-63A COMMUNICATIONS CENTRAL	S	12	PFC
2542.2.5 . . .	INSTALL REPRODUCTION/ DISTRIBUTION FACILITY (RDF)		S/12	LCPL
2542.3.1 . . .	OPERATE AN/UXC-7 TACTICAL FACSIMILE SET	S	12	PFC
2542.3.2 . . .	LOAD ELECTRONIC VARIABLE IN TSEC/KG-84 () COMMUNICATION SECURITY EQUIPMENT	P	S/12	PFC
2542.3.3 . . .	EXECUTE COMMUNICATION CENTER EMERGENCY ACTION PLAN		S/12	PFC
2542.3.4 . . .	CONDUCT MESSAGE COURIER PROCEDURES		S/12	PFC
2542.3.5 . . .	PROCESS MESSAGE TRAFFIC	S	12	PFC
2542.3.6 . . .	DRAFT A SERVICE MESSAGE	P	S/12	PFC

ENCLOSURE (3)

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2542.3.7 . . .	OPERATE FMF-EUCE	S	12	PFC
2542.3.8 . . .	PERFORM OPERATOR/MAINTAINER PROCEDURES FOR AN/MSC-63A COMMUNICATION CENTRAL	S	12	PFC
2542.3.9 . . .	OPERATE REPRODUCTION/ DISTRIBUTION FACILITY (RDF)		S/12	PFC
2542.4.1 . . .	PERFORM PREVENTIVE MAINTENANCE ON TACTICAL COMMUNICATION CENTER EQUIPMENT		S/12	PFC
MOS 2549, COMMUNICATION CENTER CHIEF				
2549.1.1 . . .	PLAN A TACTICAL COMMUNICATION/ MESSAGE CENTER	P	S/12	SSGT
2549.1.2 . . .	DRAFT COMMUNICATION CENTER EMERGENCY ACTION PLAN (EAP)	P	S/12	SGT
2549.1.3 . . .	DRAFT COMMUNICATIONS GUARD SHIFT	S	12	SGT
2549.2.1 . . .	SUPERVISE INSTALLATION OF A TACTICAL COMMUNICATION CENTER	S	12	SGT
2549.2.2 . . .	INSTALL AN/UYK-83/85 AS A DCS TERMINAL	S	12	SGT
2549.3.1 . . .	SUPERVISE OPERATION OF A TACTICAL COMMUNICATION CENTER	S	12	SSGT
2549.3.2 . . .	SUPERVISE OPERATION OF THE REPRODUCTION/DISTRIBUTION FACILITY (RDF)		S/12	SSGT
2549.3.3 . . .	DIRECT OPERATION OF THE AN/MSC-63A	S	12	SGT
2549.4.1 . . .	SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES	P	S/12	SSGT
2549.4.2 . . .	DIRECT MAINTENANCE MANAGEMENT PROCEDURES	P	S/12	SGT
2549.6.1 . . .	CONDUCT COMMUNICATION CENTER TRAINING PROGRAM		S/12	SSGT
MOS 2581, RADIO FREQUENCY MANAGEMENT TECHNICIAN				
2581.1.1 . . .	PERFORM OPERATIONAL FREQUENCY MANAGEMENT PROCEDURES	P	S/12	SSGT
2581.1.2 . . .	PERFORM ADMINISTRATIVE FREQUENCY MANAGEMENT PROCEDURES	P	S/12	SSGT
2581.3.1 . . .	OPERATE AN/TRQ-35	S	12	SSGT
MOS 2585, PLRS MASTER STATION OPERATOR				
2585.1.1 . . .	PLAN PLRS EMPLOYMENT	P	S/12	SSGT
2585.2.1 . . .	DIRECT THE INSTALLATION OF THE AN/TSQ-129 PLRS MASTER STATION	P	S/12	SGT
2585.2.2 . . .	INSTALL THE AN/TSQ-129 PLRS MASTER STATION	S	12	CPL
2585.2.3 . . .	INITIALIZE THE AN/TSQ-129 PLRS MASTER STATION	P	S/12	CPL
2585.3.1 . . .	DIRECT OPERATION OF PLRS NETWORK	P	S/12	SSGT
2585.3.2 . . .	DIRECT THE OPERATION OF THE AN/TSQ-129 PLRS MASTER STATION	P	S/12	SGT
2585.3.3 . . .	CORRECT AN/USQ-90 PLRS SYSTEM ABNORMALITIES	S	12	SGT
2585.3.4 . . .	OPERATE THE AN/TSQ-129 PLRS MASTER STATION	S	12	CPL
2585.3.5 . . .	UPDATE AN/TSQ-129 PLRS MASTER STATION DATABASES	S	12	CPL

TASK NUMBER	TASK	FS	MOJT SUST	Grade
2585.3.6	PERFORM OPERATOR MALFUNCTION DIAGNOSTICS ON THE AN/TSQ-129 PLRS MASTER STATION	S	12	CPL
2585.4.1	PERFORM PREVENTIVE MAINTENANCE ON THE AN/TSQ-129 PLRS MASTER STATION	S	12	CPL
MOS 2591, OPERATIONAL COMMUNICATION CHIEF				
2591.1.1	DRAFT PLAN FOR AMPHIBIOUS COMMUNICATIONS	S	12	GYSGT
2591.1.2	DRAFT UNIT'S COMMUNICATION SOP	P	S/12	MSGT
2591.1.3	RECOMMEND MODIFICATIONS OF ALLOWANCE	P	S/12	GYSGT
2591.1.4	ADVISE ON LOCATION, ECHELONMENT, AND DISPLACEMENT OF COMMAND POST	S	12	GYSGT
2591.1.5	DETERMINE TOTAL POWER REQUIREMENTS FOR COMMUNICATIONS OPERATIONS	S	12	GYSGT
2591.1.6	DRAFT COMMUNICATIONS GUARD SHIFT	S	12	GYSGT
2591.1.7	MANAGE COMMUNICATIONS ADMINISTRATIVE FUNCTIONS		S/12	GYSGT
2591.1.8	CONDUCT COMMUNICATION SITE SURVEY	P	S/12	GYSGT
2591.1.9	DRAFT A TACTICAL SWITCHING SYSTEM PLAN	P	S/12	GYSGT
2591.1.10	ASSIST COMMANDER AND STAFF IN COMMUNICATION PLANNING	P	S/12	GYSGT
2591.1.11	DRAFT SATELLITE ACCESS REQUEST	P	S/12	GYSGT
2591.1.12	SUPERVISE THE ADMINISTRATION FUNCTIONS OF A COMMUNICATION INFORMATION STAFF SECTION		S/12	GYSGT
2591.1.13	PERFORM SYSTEMS PLANNING AND ENGINEERING	P	S/12	MGYSGT
2591.1.14	RECOMMEND T/E, T/O CHANGES		S/12	GYSGT
2591.1.15	CONDUCT PROPAGATION PREDICTION	P	S/12	GYSGT
2591.1.16	PLAN FOR FREQUENCY HOPPING	P	S/12	GYSGT
2591.2.1	SUPERVISE EXECUTION OF COMMUNICATIONS PLANS AND ORDERS		S/12	GYSGT
2591.2.2	SUPERVISE ECCM TECHNIQUES		S/12	GYSGT
2591.3.1	ENFORCE COMMUNICATION SECURITY (COMSEC) PROCEDURES		S/12	GYSGT
2591.3.2	IMPLEMENT COMMAND, CONTROL, COMMUNICATION PROTECTION (C3)		S/12	GYSGT
2591.3.3	DIRECT COMMUNICATION CONTROL (SYSCON/TECHCON) OPERATIONS	P	S/12	GYSGT
2591.3.4	SUPERVISE ULCS OPERATIONS		S/12	GYSGT
2591.3.5	SUPERVISE THE OPERATION OF THE DIGITAL BACKBONE NETWORK		S/12	GYSGT
2591.3.6	SUPERVISE OPERATION OF RADIO SYSTEM		S/12	GYSGT
2591.3.7	SUPERVISE HANDLING OF BATTERIES		S/12	GYSGT
2591.4.1	COORDINATE MAINTENANCE MANAGEMENT PROCEDURES FOR COMMUNICATIONS EQUIPMENT	P	S/12	GYSGT
2591.5.1	COORDINATE EMBARKATION OF COMMUNICATION ASSETS	P	S/12	GYSGT
2591.6.1	MANAGE COMMUNICATION TRAINING PROGRAM		S/12	GYSGT

ENCLOSURE (3)

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COMMON ITS LISTING

1. General. This enclosure provides a cross reference of ITS's common to more than one MOS within OccFld 25. It is designed to assist the trainer in consolidating training for common tasks. Essential subjects ITS's are not listed since all Marines, regardless of MOS or grade, must be able to achieve the standard for those tasks.
2. Format. The enclosure lists the Task Title for each common task within the Occfld. Common Task Numbers follow each Task Title.

TASK NUMBER EXAMPLE: 2531.3.7

- o 2531 refers to the applicable Field Radio Operator.
- o .3 refers to the Duty Area within the MOS; in this case, "Operate Communication Systems".
- o .7 refers to the Task; in this case, "Operate AN/MRC-110A Radio Set".

<u>TASK TITLE</u>	<u>COMMON TASK NUMBERS</u>			
CONDUCT COMMUNICATION SITE SURVEY	2503.1.2	2591.18		
CONDUCT PROPAGATION PREDICTION	2537.1.6	2591.1.15		
DRAFT COMMUNICATIONS GUARD SHIFT	2502.19	2503.1.8	2549.1.3	2591.1.6
DRAFT SATELLITE ACCESS REQUEST	2539.1.2	2591.1.11		
INSTALL AN/UXC-7 TACTICAL FACSIMILE SET	2531.2.6	2542.2.1		
INSTALL PP-2953/U POWER SUPPLY	2512.2.5	2531.2.3		
INSTALL PP-6836/G POWER SUPPLY SET	2512.2.6	2531.2.4		
INSTALL PP-7333 POWER SUPPLY	2512.2.7	2531.2.5		
INSTALL TSEC/HYX-57 WIRELINE ADAPTER	2512.2.19	2531.2.23		
OPERATE AN/UXC-7 TACTICAL FACSIMILE SET	2531.3.23	2542.3.1		
PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	2512.3.9	2515.3.7		
PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	2512.3.10	2515.3.3		
PLAN A COMMERCIAL CABLE SYSTEM	2513.1.1	2549.1.2		
PLAN A TACTICAL COMMUNICATION/MESSAGE CENTER	2502.1.13	2549.1.1		
PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS	2502.1.14	2503.1.7		
PREPARE SATELLITE ACCESS REQUEST	2502.1.12	2503.1.9		
SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES	2537.4.1	2549.4.1		

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TRAINING SUPPORT

1. This enclosure identifies training support in four categories for each MOS or the OccFld as a whole. Some of the support items are identified by tasks, groups of tasks, or for the entire task list as follows:

Appendix A: Training Devices, Simulators, and Training Aids

Appendix B: Training Equipment

Appendix C: Ammunition, Explosives, and Pyrotechnics

Appendix D: Training Materials

2. If support identified in any appendix does not apply, the appendix will be included stating: "DOES NOT APPLY TO THIS MOS/OCCFLD."

ENCLOSURE (5)

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TRAINING DEVICES, SIMULATORS, AND TRAINING AIDS

Audio Visual Aids (overhead projectors, slide projectors, film projectors, video cassette recorders)

Easel Board and flip charts

Field Message Book

Maintenance Forms

CEOI

High Voltage Signs

DD 173/2 Joint Messageform

Administrative Supplies (i.e., Grease pencils, Tags, Log Books)

Appendix A to
ENCLOSURE (5)

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TRAINING EQUIPMENT

VEHICLES

M998 HMMWV
M-876 Telephone Maintenance Truck

RADIOS AND ALLIED EQUIPMENT

AB-()/GRC Antenna Mast Kit
AN/GRC-160 Radio Set
AN/GRC-193 Radio Set
AN/GRC-201 Radio Set
AN/MRC-110A Radio Set
AN/MRC-135B Radio Terminal Set
AN/MRC-138 Radio Set
AN/MRC-140 UHF SATCOM Radio Set
AN/MRC-142 UHF MUX Radio Set
AN/PRC-68A/KYV-2 Radio Set
AN/PRC-77 Radio Set
AN/PRC-104 Radio Set
AN/PRC-113 Radio Set
AN/PRC-119 SINCGARS Radio Set
AN/PSC-3 Manpack Satellite Terminal
AN/TSC-120 Radio Set
AN/TRQ-35(V) Tactical Frequency Management System
AN/TSC-85B Satellite Communication Terminal
AN/TSC-93B Ground Mobile Forces Satellite Communications
Terminal
AN/TSC-95 Communications System
AN/TSC-96(V) Satellite Communications Central
AN/VRC-12 Radio Set
AN/VRC-83 Radio Set
AN/VRC-88A SINCGARS Radio Set
AN/VRC-89A SINCGARS Radio Set
AN/VRC-90A SINCGARS Radio Set
AN/VRC-91A SINCGARS Radio Set
AN/VRC-92A SINCGARS Radio Set
AN/PSN-8 GPS
AN/PSQ-4 PLRS
AN/CYZ-10 Data Transfer Device
AN/PIQ-5 Public Address Set
AN/MSC-63A Communication Central
AS-2236/GRC Antenna
AS-2259/GR Antenna, HF Tactical
MK-456/GRC Retransmission Kit
MX-9331B/URC Regenerative Repeater
RC-292 Antenna
RT-524/VRC Receiver-Transmitter Unit
TSEC/KY-57 Speech Security Equipment (VINSON)
TSEC/KY-65 Speech Security Equipment (PARKHILL)
TSEC-KY-99 Speech Security Equipment
TSEC/KY-90 Radio Wire Interface
TSEC/HYX-57 Wire Line Adapter
TSEC/HYX-65 Wire Line Adapter
TSEC/KG-84 Loop Encryption Device
TSEC/KG-194 Trunk Encryption Device
TSEC/KY-68 DSVT
TSEC/KG-27 Bulk Encryption Device
TSEC/KG-84() Communication Security Equipment
TSEC/KG-94A Cryptographic Equipment
TSEC/KYV-5A ANDVT
KL-43 Off Line Encryption Device

TELEPHONES, TELEPRINTERS, FACSIMILE, TERMINALS

AN/UXC-7 Tactical Facsimile Set
AN/MSC-63,63A Communications Central
AN/PSC-2 Digital Communications Terminal

Appendix B to
ENCLOSURE (5)

AN/TTC-38(V)/1,38(V)/2 Automatic Telephone Central Office
AN/TTC-42()/V Automatic Telephone Central Office
AN/UGC-74A(V)3 Communications Terminal
CV-3333/U Audio Digital Converter
SB-22/PT Manual Telephone Switchboard
SB-3614()/TT Telephone Switchboard
SB-3659/U,A/U Communication Patching Panel
SB-3865(P)/TT Automatic Telephone Switching Unit
SB-4097/U Communication Patching Panel
STU-III Secure Telephone Set
TA-1042 DNVT
TA-1/PT Telephone Set
TA-125/GT Terminal Box
TA-236/FT Telephone Set
TA-312/PT Telephone Set
TA-838()/TT Telephone Set
TA-937/GCC Telephone Line Equalizer
TA-938/G Telephone Set
TA-977/PT Tone Signaling Adapter
TD-1234()/TTC Multiplexer-Combiner

CONTROL UNITS AND INTERCOMMUNICATION EQUIPMENT

AN/GRA-39A,39B Radio Set Control Group
C-6709/G Radio Set Control
CX-4566 Series Cable Assemblies
CX-4760A/U Cable Assembly
CX-11230()/G Cable Assembly
J-1077A Distribution Box
J-2317/U Distribution Box
J-2790 Distribution Box

NAVIGATION EQUIPMENT

AN/TSQ-129 Position Locating Reporting System (PLRS)
AN/USQ-90 PLRS System
AN/PPN-19 BEACON

POWER SUPPLIES

PP-2953/U Power Supply
PP-6836/U Power Supply Set
PP-7333 Power Supply

PUBLIC ADDRESS EQUIPMENT

AN/UIQ-10(V)

WIRE COMMUNICATION TOOLS AND EQUIPMENT

LC-61 Underground Cable Layer
LC-231/FT Cable Lashing Machine
LC-240 Climber Set
MK-356/G Wire Splicing Kit
MX-306()/G Wire Dispenser
RL-31-E Reel Unit
TE-33 Tool Kit

MISCELLANEOUS

782 Gear
Batteries; as applicable
Bus Bars
Cable Plow
Camouflage Equipment
Chainsaw
Compass, Lensatic
Coordinate Scale and Protractor
Electrical Tape
Electrical Wire
Embarkation Equipment
Engineer Tape

Appendix B to
ENCLOSURE (5)

Environmental Control Units
Field Cable
Field Wire
Fire Extinguishers
Fuel (oil/gas)
Generators; as applicable
Joint MessageForm, DD Form 173/2
Ground Stakes
Light Bulbs
Military Map 1:50,000 Scale
Mole Boring Machine
Morse Code Equipment
Overlay Paper
Pionjar
Ruler
Sandbags
Scissors
Span/Down Guys
String/Rope
Tool Boxes; as applicable
Tool Kits; as applicable

Appendix B to
ENCLOSURE (5)

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AMMUNITION, EXPLOSIVES, AND PYROTECHNICS

DOES NOT APPLY TO THIS MOS/OCCFLD.

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Appendix C to
ENCLOSURE (5)

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TRAINING MATERIALS

See the MCI catalog for those MCI courses that cover the appropriate OccFld 25 MOS's.

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Appendix D to
ENCLOSURE (5)

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INDIVIDUAL TRAINING STANDARDS FOR OPERATIONAL COMMUNICATIONS
OCCUPATIONAL FIELD (OCCFLD) 25

MOS 2500, BASIC OPERATIONAL COMMUNICATOR

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2500.1.1	PLAN MOBILE ELECTRONIC POWER GENERATOR (MEPG) SUPPORT FOR COMMUNICATIONS OPERATIONS	6-A-1
TASK 2500.1.2	DIRECT HANDLING OF BATTERIES	6-A-2
TASK 2500.1.3	PLAN EQUIPMENT GROUNDING PROCEDURES	6-A-2
TASK 2500.1.4	PLAN JOINT/COMBINED INTER/INTRA OPERABILITY	6-A-3
TASK 2500.1.5	PREPARE USMTF AND GENADMIN MESSAGES	6-A-3
TASK 2500.1.6	PLAN/ENACT ELECTROMAGNETIC INTERFERENCE (EMI) CONTROL MEASURES	6-A-4
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2500.2.1	CAMOUFLAGE COMMUNICATIONS EQUIPMENT	6-A-4
TASK 2500.2.2	DIRECT CAMOUFLAGING OF COMMUNICATION ASSETS	6-A-5
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2500.3.1	WEATHERPROOF COMMUNICATIONS EQUIPMENT	6-A-5
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2500.4.1	PERFORM OPERATOR LEVEL PREVENTIVE MAINTENANCE ON MOBILE ELECTRIC POWER GENERATORS (MEPG)	6-A-6
TASK 2500.4.2	MANAGE MIMMS DOCUMENTS (LM2, DPR, ERO)	6-A-7
TASK 2500.4.3	SUPERVISE MOTOR TRANSPORT MAINTENANCE	6-A-8
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2500.5.1	PREPARE COMMUNICATIONS ASSETS FOR EMBARKATION	6-A-10
TASK 2500.5.2	EMBARK COMMUNICATIONS EQUIPMENT	6-A-10
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		
TASK 2500.6.1	CONDUCT SKILL PROGRESSION TRAINING FOR COMMUNICATIONS PERSONNEL	6-A-11

ENCLOSURE (6)

MOS 2502, COMMUNICATION OFFICER

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2502.1.1	PLAN FOR AMPHIBIOUS COMMUNICATIONS	6-B-1
TASK 2502.1.2	PLAN A COMMUNICATION SYSTEM	6-B-2
TASK 2502.1.3	PLAN COMMUNICATION SECURITY	6-B-2
TASK 2502.1.4	PLAN ESTABLISHMENT COMMUNICATIONS ELEMENT OF A COMMAND POST	6-B-3
TASK 2502.1.5	PLAN DATA COMMUNICATIONS	6-B-4
TASK 2502.1.6	PLAN COMMUNICATIONS FOR JOINT/COMBINED OPERATIONS	6-B-4
TASK 2502.1.7	WRITE COMMUNICATIONS-ELECTRONICS ESTIMATE	6-B-5
TASK 2502.1.8	WRITE PARAGRAPH 5 TO AN OPERATION ORDER	6-B-6
TASK 2502.1.9	DRAFT COMMUNICATIONS GUARD SHIFT	6-B-6
TASK 2502.1.10	DRAFT TELECOMMUNICATIONS SERVICE REQUEST (TSR)	6-B-7
TASK 2502.1.11	WRITE COMMUNICATIONS STANDING OPERATING PROCEDURE	6-B-7
TASK 2502.1.12	PREPARE SATELLITE ACCESS REQUEST	6-B-8
TASK 2502.1.13	PLAN A TACTICAL COMMUNICATION/ MESSAGE CENTER	6-B-8
TASK 2502.1.14	PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS	6-B-9
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2502.2.1	ENFORCE PREVENTIVE ECCM TECHNIQUES	6-B-10
TASK 2502.2.2	MANAGE INSTALLATION OF A FIELD WIRE SYSTEM	6-B-10
TASK 2502.2.3	MANAGE INSTALLATION OF A TACTICAL COMMUNICATION CENTER	6-B-10
TASK 2502.2.4	MANAGE INSTALLATION OF A FIELD RADIO SYSTEM	6-B-11
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2502.3.1	MANAGE OPERATION OF OPERATION SYSTEM CONTROL	6-B-12
TASK 2502.3.2	MANAGE OPERATION OF A TECHNICAL CONTROL FACILITY (TECHCONFAC)	6-B-12
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2502.4.1	PREPARE MODIFICATION OF ALLOWANCE (MOA) REQUEST	6-B-13
TASK 2502.4.2	MANAGE THE MAINTENANCE SUPPORT OF A DEPLOYED UNIT	6-B-14
TASK 2502.4.3	MANAGE MIMMS IN SUPPORT OF UNIT MAINTENANCE	6-B-14
TASK 2502.4.4	PLAN SUPPLY REQUIREMENTS FOR COMMUNICATIONS	6-B-15
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2502.5.1	PLAN EMBARKATION OF COMM-ELECT EQUIPMENT AND SUPPLIES	6-B-16
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		
TASK 2502.6.1	MANAGE COMMUNICATION TRAINING	6-B-17

ENCLOSURE (6)

MOS 2503, TELECOMMUNICATIONS OPERATIONS OFFICER

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2503.1.1	DEVELOP COMMUNICATIONS ESTIMATE	6-C-1
TASK 2503.1.2	CONDUCT COMMUNICATION SITE SURVEY	6-C-1
TASK 2503.1.3	PREPARE COMMAND AND CONTROL SYSTEMS ANNEX	6-C-2
TASK 2503.1.4	PREPARE FOR AMPHIBIOUS COMMUNICATIONS	6-C-2
TASK 2503.1.5	PLAN COMMUNICATION SUPPORT FOR DATA SYSTEMS	6-C-3
TASK 2503.1.6	PLAN JOINT INTEROPERABILITY FOR THE COMMAND	6-C-4
TASK 2503.1.7	PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS	6-C-4
TASK 2503.1.8	DRAFT COMMUNICATIONS GUARD SHIFT	6-C-5
TASK 2503.1.9	PREPARE SATELLITE ACCESS REQUEST	6-C-5
TASK 2503.1.10	MAINTAIN COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS SOP	6-C-6
TASK 2503.1.11	ESTABLISH LIAISON WITH COMMUNICATION AGENCIES	6-C-7
TASK 2503.1.12	COORDINATE COMMAND'S FREQUENCY ALLOCATION	6-C-7
TASK 2503.1.13	ADVISE ON LOCATION, ECHELONMENT, AND MOVEMENT OF COMMAND POST	6-C-8
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2503.2.1	COORDINATE LOCATION, ECHELONMENT OF COMMAND POST	6-C-9
TASK 2503.2.2	DIRECT EMPLOYMENT OF COMMUNICATION ASSETS	6-C-9
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2503.3.1	MAINTAIN OPERATIONAL SYSTEM CONTROL/TECHCONFAC	6-C-10
TASK 2503.3.2	MONITOR COMMUNICATION SECURITY PROCEDURES	6-C-11
TASK 2503.3.3	RESOLVE COMMUNICATIONS RELIABILITY/AVAILABILITY PROBLEMS	6-C-11
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2503.4.1	DETERMINE PROCUREMENT/ALLOCATION OF COMM EQUIPMENT	6-C-12
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2503.5.1	EMBARK COMM-ELEC EQUIPMENT AND SUPPLIES	6-C-13
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		
TASK 2503.6.1	DIRECT COMMUNICATION TRAINING FOR THE COMMAND	6-C-14

ENCLOSURE (6)

MOS 2512, FIELD WIREMAN

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2512.1.1	WRITE WIRE SYSTEM SUPPORT DOCUMENTS FOR AN INFANTRY BATTALION OR COMPARABLE UNIT	6-D-1
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2512.2.1	DIRECT INSTALLATION OF THE WIRE SYSTEM	6-D-2
TASK 2512.2.2	INSTALL AN/UIQ-10(V) PUBLIC ADDRESS SET	6-D-2
TASK 2512.2.3	INSTALL C-6709/G RADIO SET CONTROL	6-D-3
TASK 2512.2.4	INSTALL CX-11230()/G CABLE ASSEMBLY FOR UNIT LEVEL CIRCUIT SWITCH	6-D-3
TASK 2512.2.5	INSTALL PP-2953/U POWER SUPPLY	6-D-4
TASK 2512.2.6	INSTALL PP-6836/G POWER SUPPLY SET	6-D-4
TASK 2512.2.7	INSTALL PP-7333 POWER SUPPLY	6-D-4
TASK 2512.2.8	INSTALL SB-22/PT MANUAL TELEPHONE SWITCHBOARD	6-D-5
TASK 2512.2.9	INSTALL SB-3614()/TT AUTOMATIC SWITCHBOARD	6-D-5
TASK 2512.2.10	INSTALL SB-3659()/U COMMUNICATION PATCHING PANEL	6-D-6
TASK 2512.2.11	INSTALL SB-4097/U COMMUNICATION PATCHING PANEL	6-D-6
TASK 2512.2.12	INSTALL TA-954/PT TELEPHONE SET	6-D-7
TASK 2512.2.13	INSTALL TA-312/PT TELEPHONE SET	6-D-7
TASK 2512.2.14	INSTALL TA-838/TT TELEPHONE SET	6-D-8
TASK 2512.2.15	INSTALL TA-937/GCC TELEPHONE LINE EQUALIZER	6-D-8
TASK 2512.2.16	INSTALL TA-938/G TELEPHONE SET	6-D-9
TASK 2512.2.17	INSTALL TA-1042 TELEPHONE SET	6-D-9
TASK 2512.2.18	INSTALL TA-977/PT TONE SIGNALING ADAPTER TO SB-22/PT MANUAL TELEPHONE SWITCHBOARD	6-D-10
TASK 2512.2.19	INSTALL TSEC/HYX-57 WIRELINE ADAPTER	6-D-10
TASK 2512.2.20	INSTALL STU-III SECURE TELEPHONE SET	6-D-11
TASK 2512.2.21	DIRECT STU-III INSTALLATION	6-D-11
TASK 2512.2.22	BURY FIELD CABLE	6-D-11
TASK 2512.2.23	INSTALL DISTRIBUTION BOX	6-D-12
TASK 2512.2.24	CONSTRUCT A DISTRIBUTION FRAME USING TERMINAL BOXES	6-D-12
TASK 2512.2.25	MARK CABLE ROUTES ON TOPOGRAPHIC MAP	6-D-13
TASK 2512.2.26	INSTALL FIELD CABLE CX-4566 SERIES	6-D-13
TASK 2512.2.27	INSTALL LANCEPOLE PO-2 FOR OVERHEADING FIELD WIRE	6-D-14
TASK 2512.2.28	INSTALL BACKUP POWER FOR SB-3614()/TT USING VEHICLE POWER	6-D-14
TASK 2512.2.29	SPLICE FIELD WIRE	6-D-15
ENCLOSURE (6)		

<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2512.3.1	DIRECT OPERATION OF WIRE SYSTEM	6-D-15
TASK 2512.3.2	DIRECT OPERATION DIGITAL BACKBONE NETWORK	6-D-16
TASK 2512.3.3	OPERATE AN/UIQ-10(V) PUBLIC ADDRESS (PA) SET	6-D-16
TASK 2512.3.4	CLIMB/DESCEND POLE/TREE UTILIZING LC-240 CLIMBING EQUIPMENT	6-D-17
TASK 2512.3.5	OPERATE PP-2953/U POWER SUPPLY	6-D-17
TASK 2512.3.6	OPERATE PP-6836/G POWER SUPPLY	6-D-18
TASK 2512.3.7	OPERATE SB-22/PT MANUAL TELEPHONE SWITCHBOARD	6-D-18
TASK 2512.3.8	OPERATE SB-3614()/TT AUTOMATIC TELEPHONE SWITCHBOARD	6-D-19
TASK 2512.3.9	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-D-20
TASK 2512.3.10	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-D-20
TASK 2512.3.11	INSPECT UTILITY POLE	6-D-21
TASK 2512.3.12	OPERATE STU-III SECURE TELEPHONE SET	6-D-21
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2512.4.1	DIRECT WIRE PREVENTIVE MAINTENANCE (PM)	6-D-22
TASK 2512.4.2	PERFORM PREVENTIVE MAINTENANCE ON TACTICAL SWITCHBOARDS	6-D-22
TASK 2512.4.3	PERFORM PREVENTIVE MAINTENANCE ON TELEPHONE INSTRUMENTS	6-D-23
TASK 2512.4.4	REPAIR WIRE FAULTS	6-D-23
TASK 2512.4.5	PERFORM PREVENTIVE MAINTENANCE ON A PUBLIC ADDRESS SET	6-D-24
TASK 2512.4.6	PERFORM PREVENTIVE MAINTENANCE ON CX-11230()/G	6-D-24
TASK 2512.4.7	PERFORM PREVENTIVE MAINTENANCE ON LC-240 CLIMBING EQUIPMENT	6-D-25
TASK 2512.4.8	PERFORM PREVENTIVE MAINTENANCE ON A POWER SUPPLY SET	6-D-25
TASK 2512.4.9	PERFORM PREVENTIVE MAINTENANCE ON A CX-4766 COMMUNICATION PATCHING PANEL	6-D-26
TASK 2512.4.10	PERFORM PREVENTIVE MAINTENANCE ON TA-937/GCC TELEPHONE LINE EQUALIZER	6-D-26
TASK 2512.4.11	PERFORM PREVENTIVE MAINTENANCE ON TSEC/HYX-57 WIRE LINE ADAPTER	6-D-27
TASK 2512.4.12	PERFORM PREVENTIVE MAINTENANCE ON DISTRIBUTION BOX	6-D-27
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		

MOS 2513, CONSTRUCTION WIREMAN

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2513.1.1	PLAN A COMMERCIAL CABLE SYSTEM	6-E-1
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2513.2.1	DIRECT CONSTRUCTION OF AN OVERHEAD CABLE SYSTEM	6-E-1
TASK 2513.2.2	CONSTRUCT AN OVERHEAD CABLE SYSTEM	6-E-2
TASK 2513.2.3	PULL POLES USING M-876 TELEPHONE MAINTENANCE TRUCK	6-E-3
TASK 2513.2.4	SUPERVISE LOADING/UNLOADING OF CABLE REELS AND POLES ON K-37 CABLE/POLE TRAILER	6-E-3
TASK 2513.2.5	LOAD/UNLOAD COMMERCIAL CABLE REELS ON K-37 CABLE/POLE TRAILER	6-E-4
TASK 2513.2.6	LOAD/UNLOAD POLES ON K-37 CABLE/POLE TRAILER	6-E-4
TASK 2513.2.7	ARRANGE M-876 TELEPHONE MAINTENANCE TRUCK FOR AUGERING	6-E-5
TASK 2513.2.8	ARRANGE M-876 TELEPHONE MAINTENANCE TRUCK FOR OVERHEAD WORK	6-E-5
TASK 2513.2.9	LASH COMMERCIAL CABLE TO MESSENGER USING LC-231 LASHING MACHINE, CABLE GUIDE, AND CABLE SUPPORT	6-E-5
TASK 2513.2.10	SET POLES USING M-876 TELEPHONE MAINTENANCE TRUCK	6-E-6
TASK 2513.2.11	SEND AND PACK COMMERCIAL CABLES IN MANHOLES	6-E-6
TASK 2513.2.12	BURY CABLE USING A CABLE PLOW AND OR DITCH WITCHES	6-E-7
TASK 2513.2.13	CLEAR BLOCKED CONDUITS USING ROD KITS AND REAMERS	6-E-7
TASK 2513.2.14	CONSTRUCT SURFACE MOUNTED CONDUIT SYSTEMS	6-E-8
TASK 2513.2.15	CUT ASPHALT AND CONCRETE USING PIONJAR	6-E-8
TASK 2513.2.16	CUT TELEPHONE POLES USING CHAIN SAW	6-E-8
TASK 2513.2.17	INSTALL CONDUIT UNDER OBSTRUCTIONS USING A MOLE BORING MACHINE	6-E-9
TASK 2513.2.18	INSTALL DOWN GUYS AND SPAN GUYS FOR POLE SUPPORT	6-E-9
TASK 2513.2.19	INSTALL WIRES IN CONDUIT SYSTEMS	6-E-10
TASK 2513.2.20	PERFORM TAMPING USING PIONJAR	6-E-10
TASK 2513.2.21	RECOVER COMMERCIAL CABLE	6-E-11
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2513.3.1	OPERATE M-876 TELEPHONE MAINTENANCE TRUCK UNDER UNUSUAL CONDITIONS	6-E-11
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2513.4.1	DIRECT PREVENTIVE MAINTENANCE (PM) ON WIRELINE CONSTRUCTION EQUIPMENT	6-E-12
TASK 2513.4.2	PERFORM PREVENTIVE MAINTENANCE ON WIRELINE CONSTRUCTION EQUIPMENT	6-E-12
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		

MOS 2515, ULS CENTRAL OFFICE OPERATOR/MAINTAINER

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2515.1.1	ASSIST UNIT LEVEL CIRCUIT SWITCH (ULCS) STAFF PLANNER WITH ULCS PLANNING	6-F-1
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2515.2.1	INSTALL CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-3
TASK 2515.2.2	INITIALIZE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-3
TASK 2515.2.3	INSTALL SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-F-4
TASK 2515.2.4	INITIALIZE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-F-5
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2515.3.1	PERFORM COMSEC OPERATING/INDEX PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-5
TASK 2515.3.2	PERFORM SUPERVISOR OPERATING/INDEX PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-6
TASK 2515.3.3	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-6
TASK 2515.3.4	OPERATE THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) UNDER NORMAL CONDITIONS	6-F-7
TASK 2515.3.5	OPERATE THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) UNDER EMERGENCY CONDITIONS	6-F-7
TASK 2515.3.6	PERFORM SUPERVISOR OPERATING/INDEX PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-F-8
TASK 2515.3.7	PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING PROCEDURES FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-F-8
TASK 2515.3.8	OPERATE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC UNDER NORMAL CONDITIONS	6-F-9
TASK 2515.3.9	OPERATE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC UNDER EMERGENCY CONDITIONS	6-F-11
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2515.4.1	PERFORM CALL SERVICE ATTENDANT (CSA) MAINTENANCE ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-11
TASK 2515.4.2	PERFORM OPERATOR/MAINTAINER MAINTENANCE ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)	6-F-11
TASK 2515.4.3	PERFORM CALL SERVICE ATTENDANT (CSA) MAINTENANCE ON THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-F-12
TASK 2515.4.4	PERFORM INSTALLER/MAINTAINER MAINTENANCE ON THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC	6-F-13
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2515.5.1	PREPARE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) FOR EMBARKATION/TRANSPORT	6-F-14
TASK 2515.5.2	PREPARE THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC FOR EMBARKATION	6-F-14

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DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

ENCLOSURE (6)

MOS 2519, WIRE CHIEF

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2519.1.1	PLAN WIRE COMMUNICATIONS	6-G-1
TASK 2519.1.2	PLAN A COMMERCIAL CABLE SYSTEM	6-G-1
TASK 2519.1.3	PLAN ROUTE FOR FIELD WIRE AND CABLE LAYING	6-G-2
TASK 2519.1.4	PLAN A TACTICAL DIGITAL SWITCHING NETWORK	6-G-2
TASK 2519.1.5	PLAN FIBER OPTIC CABLE (FOCS)	6-G-3
TASK 2519.1.6	PLAN STU-III OPERATIONS	6-G-4
TASK 2519.1.7	PLAN DNV T OPERATIONS	6-G-4
TASK 2519.1.8	PLAN DSV T OPERATIONS	6-G-5
TASK 2519.1.9	PLAN ULCS OPERATIONS	6-G-5
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2519.2.1	SUPERVISE INSTALLATION OF THE WIRE SYSTEM	6-G-7
TASK 2519.2.2	DIRECT INSTALLATION OF FOCS	6-G-7
TASK 2519.2.3	SUPERVISE STU-III INSTALLATION	6-G-8
TASK 2519.2.4	SUPERVISE INSTALLATION OF DSV T EQUIPMENT	6-G-8
TASK 2519.2.5	SUPERVISE INSTALLATION ULCS EQUIPMENT	6-G-9
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2519.3.1	SUPERVISE OPERATION OF WIRE/CABLE SYSTEM	6-G-10
TASK 2519.3.2	SUPERVISE COMMUNICATION SECURITY (COMSEC) FOR A WIRE SECTION	6-G-10
TASK 2519.3.3	DIRECT OPERATION OF FOCS	6-G-11
TASK 2519.3.4	DIRECT OPERATION ULCS EQUIPMENT	6-G-12
TASK 2519.3.5	SUPERVISE OPERATION DIGITAL BACKBONE NETWORK	6-G-12
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2519.4.1	SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES FOR WIRE/CONSTRUCTION SECTION	6-G-13
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		
TASK 2519.6.1	SUPERVISE WIRE COMMUNICATION TRAINING PROGRAM	6-G-14

ENCLOSURE (6)

MOS 2531, FIELD RADIO OPERATOR

<u>DUTY AREA 1 - PLAN COMMUNICATION SUPPORT</u>		
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2531.2.1	INSTALL AN/PRC-77 RADIO SET	6-H-1
TASK 2531.2.2	INSTALL AN/PSQ-4 POSITION LOCATING REPORTING SYSTEM (PLRS)	6-H-1
TASK 2531.2.3	INSTALL PP-2953/U POWER SUPPLY	6-H-2
TASK 2531.2.4	INSTALL PP-6836/G POWER SUPPLY SET	6-H-2
TASK 2531.2.5	INSTALL PP-7333 POWER SUPPLY	6-H-3
TASK 2531.2.6	INSTALL AN/UXC-7 TACTICAL FACSIMILE SET	6-H-3
TASK 2531.2.7	INSTALL AN/PRC-68A/KYV-2 RADIO SET	6-H-3
TASK 2531.2.8	INSTALL AN/GRA-39() RADIO SET CONTROL GROUP	6-H-4
TASK 2531.2.9	INSTALL AN/BRC-160 RADIO SET	6-H-4
TASK 2531.2.10	INSTALL AN/PRC-104 RADIO SET	6-H-5
TASK 2531.2.11	INSTALL AN/MRC-138 RADIO SET	6-H-5
TASK 2531.2.12	INSTALL AN/MRC-110A RADIO SET	6-H-6
TASK 2531.2.13	INSTALL AN/PRC-113 RADIO SET	6-H-7
TASK 2531.2.14	INSTALL AN/VRC-83 RADIO SET	6-H-7
TASK 2531.2.15	INSTALL AN/PSC-2 DIGITAL COMMUNICATIONS TERMINAL	6-H-8
TASK 2531.2.16	INSTALL AN/PSC-3 MANPACK SATELLITE TERMINAL	6-H-8
TASK 2531.2.17	INSTALL VEHICLE MOUNTED SINCGARS RADIO	6-H-8
TASK 2531.2.18	INSTALL AN/PRC-119A SINCGARS RADIO	6-H-9
TASK 2531.2.19	INSTALL AN/MRC-140	6-H-10
TASK 2531.2.20	INSTALL MX-9331B/URC REGENERATIVE REPEATER	6-H-10
TASK 2531.2.21	INSTALL TSEC/KY-57 COMMUNICATION SECURITY EQUIPMENT	6-H-11
TASK 2531.2.22	INSTALL TSEC/KY-65 COMMUNICATION SECURITY SYSTEM, PARKHILL	6-H-11
TASK 2531.2.23	INSTALL TSEC/HYX-57 WIRELINE ADAPTER	6-H-12
TASK 2531.2.24	ERECT RC-292 ANTENNA	6-H-12
TASK 2531.2.25	ERECT AS-2259/GR HF TACTICAL ANTENNA	6-H-13
TASK 2531.2.26	CONSTRUCT LONG WIRE ANTENNA	6-H-13
TASK 2531.2.27	CONSTRUCT FIELD EXPEDIENT ANTENNA	6-H-14
TASK 2531.2.28	DIRECT INSTALLATION OF FIELD EXPEDIENT ANTENNA	6-H-14
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2531.3.1	PERFORM PREVENTIVE ECCM TECHNIQUES	6-H-15
TASK 2531.3.2	DIRECT REMEDIAL ECCM PROCEDURES	6-H-15

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TASK 2531.3.3	PERFORM TROUBLESHOOTING PROCEDURES ON A FAULTY RADIO	6-H-16
TASK 2531.3.4	OPERATE AN/GRC-160 RADIO SET	6-H-16
TASK 2531.3.5	OPERATE AN/PRC-77 RADIO SET	6-H-17
TASK 2531.3.6	OPERATE AN/PSQ-4 PLRS	6-H-17
TASK 2531.3.7	OPERATE AN/MRC-138 RADIO SET	6-H-18
TASK 2531.3.8	OPERATE AN/MRC-110A RADIO SET	6-H-18
TASK 2531.3.9	OPERATE AN/PRC-68A/KYV-2 RADIO SET	6-H-18
TASK 2531.3.10	OPERATE AN/PRC-104 RADIO SET	6-H-19
TASK 2531.3.11	OPERATE AN/PRC-113 RADIO SET	6-H-19
TASK 2531.3.12	OPERATE AN/VRC-83 RADIO SET	6-H-20
TASK 2531.3.13	OPERATE AN/PSC-2 DIGITAL COMMUNICATION TERMINAL	6-H-20
TASK 2531.3.14	OPERATE AN/PSC-3 MANPACK SATELLITE TERMINAL	6-H-21
TASK 2531.3.15	OPERATE VEHICLE MOUNTED SINCGARS RADIO	6-H-21
TASK 2531.3.16	OPERATE AN/PRC-119	6-H-22
TASK 2531.3.17	OPERATE AN/MRC-140	6-H-22
TASK 2531.3.18	OPERATE MX-9331B/URC REGENERATIVE REPEATER	6-H-23
TASK 2531.3.19	OPERATE AN/PPN-19 RADAR BEACON	6-H-23
TASK 2531.3.20	OPERATE TSEC/KY-57 COMMUNICATION SECURITY EQUIPMENT	6-H-24
TASK 2531.3.21	OPERATE TSEC/KY-65 COMMUNICATION SECURITY EQUIPMENT	6-H-24
TASK 2531.3.22	OPERATE TSEC/KYX-15A NET CONTROL DEVICE	6-H-25
TASK 2531.3.23	OPERATE AN/UXC-7 TACTICAL FACSIMILE SET	6-H-25
TASK 2531.3.24	EMPLOY VOICE RADIO TELEPHONE PROCEDURES	6-H-25
TASK 2531.3.25	CONDUCT AUTOMATIC RETRANSMISSION USING MK-456	6-H-26
TASK 2531.3.26	MAINTAIN CIRCUIT LOGS	6-H-26
TASK 2531.3.27	DIRECT OPERATION OF SINGLE CHANNEL RADIO PLAN	6-H-27

<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2531.4.1	PERFORM PREVENTIVE MAINTENANCE ON PORTABLE RADIO EQUIPMENT	6-H-27
TASK 2531.4.2	PERFORM PREVENTIVE MAINTENANCE ON MOBILE RADIO EQUIPMENT	6-H-28
TASK 2531.4.3	PERFORM PREVENTIVE MAINTENANCE ON ANTENNAS	6-H-29

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

MOS 2532, MULTICHANNEL EQUIPMENT OPERATOR

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2532.1.1	PLAN EMPLOYMENT OF THE AN/MRC-142 RADIO SET	6-I-1
TASK 2532.1.2	PLAN TEAM ASSIGNMENT FOR AN/MRC-142 RADIO SET	6-I-1
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2532.2.1	ERECT AS-2236/GRC ANTENNA	6-I-2
TASK 2532.2.2	INSTALL AN/MRC-135B TERMINAL SET	6-I-2
TASK 2532.2.3	INSTALL AN/MRC-142	6-I-3
TASK 2532.2.4	ERECT OE-52A ANTENNA SET	6-I-3
TASK 2532.2.5	ERECT OE-468 MICROWAVE ANTENNA GROUP	6-I-4
TASK 2532.2.6	DETERMINE OPTIMUM MODE OF PROPAGATION FOR THE AN/MRC-142 RADIO SET	6-I-4
TASK 2532.2.7	CONNECT TSEC/KG-27 COMMUNICATION SECURITY DEVICE TO THE TELEPHONE TERMINAL	6-I-5
TASK 2532.2.8	DRAW PROFILE GRAPH USING 4/3 EARTH'S RADIUS PROFILE PAPER	6-I-5
TASK 2532.2.9	INSTALL AN/GRC-201 RADIO SET	6-I-6
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2532.3.1	OPERATE AN/MRC-135B RADIO SET	6-I-6
TASK 2532.3.2	OPERATE AN/MRC-142	6-I-7
TASK 2532.3.3	ENERGIZE AN/GRC-201 RADIO SYSTEM	6-I-7
TASK 2532.3.4	PERFORM AUDIO GAIN ADJUSTMENT ON AN/TCC-72 TELEPHONE TERMINAL	6-I-8
TASK 2532.3.5	OPERATE TSEC/KG-27 COMMUNICATIONS SECURITY DEVICE WITH AN/TCC-72 TELEPHONE TERMINAL	6-I-8
TASK 2532.3.6	OPERATE TSEC/KG-94A COMMUNICATIONS SECURITY DEVICE WITH AN/TCC-72 TELEPHONE TERMINAL	6-I-8
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2532.4.1	PERFORM PREVENTIVE MAINTENANCE (PM) ON MULTICHANNEL RADIO SET	6-I-9
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2532.5.1	PREPARE MULTICHANNEL RADIO EQUIPMENT FOR EMBARKATION	6-I-9
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		

ENCLOSURE (6)

MOS 2533, RADIO TELEGRAPH OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK 2533.3.1 6-J-1
CONDUCT COMMUNICATION OPERATIONS
IN INTERNATIONAL MORSE CODE

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

ENCLOSURE (6)

MOS 2534, HIGH FREQUENCY COMMUNICATION CENTRAL
OPERATOR

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2534.2.1	. . . . .	6-K-1
	INSTALL THE AN/TSC-95 COMMUNICATIONS SYSTEM	
TASK 2534.2.2	. . . . .	6-K-1
	INSTALL THE AN/TRQ-35	
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2534.3.1	. . . . .	6-K-2
	OPERATE THE AN/TSC-95 COMMUNICATIONS SYSTEM	
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2534.4.1	. . . . .	6-K-3
	PERFORM PREVENTIVE MAINTENANCE (PM) ON THE AN/TSC-95 COMMUNICATIONS SYSTEM	
TASK 2534.4.2	. . . . .	6-K-3
	PERFORM PREVENTIVE MAINTENANCE (PM) THE AN/TRQ-35	
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2534.5.1	. . . . .	6-K-4
	PREPARE THE AN/TSC-95 COMMUNICATIONS SYSTEM FOR EMBARKATION	

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

ENCLOSURE (6)

MOS 2535, FLEET SATCOM TERMINAL OPERATOR

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2535.1.1	PLAN AN AN/TSC-96 LINK	6-L-1
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2535.2.1	INSTALL THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	6-L-1
<u>DUTY AREA 3 - OPERATE COMMUNICATIONS SYSTEMS</u>		
TASK 2535.3.1	OPERATE THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	6-L-2
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2535.4.1	PERFORM PREVENTIVE MAINTENANCE (PM) ON THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	6-L-3
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
TASK 2535.5.1	PREPARE THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL FOR EMBARKATION	6-L-3
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		

ENCLOSURE (6)

MOS 2536, GROUND MOBILE FORCES SATCOM OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

DUTY AREA 2 - INSTALL COMMUNICATIONS SYSTEMS

TASK 2536.2.1	. . . . .	6-M-1
	INSTALL THE AN/TSC-858	
	COMMUNICATION TERMINAL, SATELLITE	
TASK 2536.2.2	. . . . .	6-M-2
	INSTALL THE AN/TSC-93B GROUND	
	MOBILE FORCES (GMF) SATELLITE	
	COMMUNICATIONS TERMINAL	
TASK 2536.2.3	. . . . .	6-M-2
	INSTALL KG-94A CRYPTOGRAPHIC	
	EQUIPMENT	
TASK 2536.2.4	. . . . .	6-M-3
	INSTALL KY-57/TSEC CRYPTOGRAPHIC	
	EQUIPMENT	

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK 2536.3.1	. . . . .	6-M-3
	OPERATE THE AN/TSC-858	
	COMMUNICATION TERMINAL,	
	SATELLITE	
TASK 2536.3.2	. . . . .	6-M-4
	OPERATE THE AN/TSC-93B GROUND	
	MOBILE FORCES (GMF) SATELLITE	
	COMMUNICATIONS TERMINAL	

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK 2536.4.1	. . . . .	6-M-5
	PERFORM PREVENTIVE MAINTENANCE	
	(PM) ON GMF TACSAT EQUIPMENT	
TASK 2536.4.2	. . . . .	6-M-5
	PERFORM PREVENTIVE MAINTENANCE	
	(PM) ON GMF TACSAT ANTENNAE	

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

TASK 2536.5.1	. . . . .	6-M-6
	PREPARE GMF TACSAT EQUIPMENT	
	FOR EMBARKATION	

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

ENCLOSURE (6)

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2537.1.1	. . . . . PLAN A SINGLE CHANNEL RADIO SYSTEM	6-N-1
TASK 2537.1.2	. . . . . PLAN UHF MULTICHANNEL RADIO COMMUNICATIONS SYSTEM	6-N-1
TASK 2537.1.3	. . . . . PLAN SHF COMMUNICATIONS	6-N-2
TASK 2537.1.4	. . . . . PLAN SATCOM	6-N-2
TASK 2537.1.5	. . . . . PLAN ANDVT OPERATIONS	6-N-3
TASK 2537.1.6	. . . . . CONDUCT PROPAGATION PREDICTION	6-N-4
TASK 2537.1.7	. . . . . PLAN INTEGRATION OF A TACTICAL COMMUNICATION SYSTEM INTO DCS	6-N-4
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2537.2.1	. . . . . SUPERVISE INSTALLATION OF RADIO EQUIPMENT	6-N-6
TASK 2537.2.2	. . . . . SUPERVISE INSTALLATION OF MOBILE ELECTRIC POWER GENERATION SYSTEMS (MEPGS)	6-N-6
TASK 2537.2.3	. . . . . SUPERVISE THE INSTALLATION OF ANDVT EQUIPMENT	6-N-7
TASK 2537.2.4	. . . . . SUPERVISE INSTALLATION OF FIELD EXPEDIENT ANTENNAS	6-N-7
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2537.3.1	. . . . . SUPERVISE EXECUTION OF RADIO COMMUNICATION PLAN	6-N-8
TASK 2537.3.2	. . . . . SUPERVISE SINCGARS NET CONTROL FUNCTIONS	6-N-8
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
TASK 2537.4.1	. . . . . SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES	6-N-9
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		
TASK 2537.6.1	. . . . . CONDUCT RADIO COMMUNICATION TRAINING PROGRAM	6-N-10

ENCLOSURE (6)

MOS 2538, FLEET SATCOM RADIO CHIEF

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2538.1.1	. . . . . PLAN A FLEET SATCOM LINK	6-O-1
TASK 2538.1.2	. . . . . PLAN FLEET SATELLITE COMMUNICATIONS (SATCOM) FOR A MARINE AIR GROUND TASK FORCE (MAGTF)	6-O-1
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2538.2.1	. . . . . DIRECT INSTALLATION OF THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL	6-O-2
<u>DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS</u>		
TASK 2538.3.1	. . . . . EXECUTE THE FLEET SATELLITE COMMUNICATIONS (SATCOM) PLAN FOR A MARINE AIR GROUND TASK FORCE (MAGTF)	6-O-3
<u>DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)</u>		
<u>DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS</u>		
<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		

ENCLOSURE (6)

MOS 2539, GROUND MOBILE FORCES SATCOM RADIO CHIEF

<u>DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT</u>		
TASK 2539.1.1	. . . . .	6-P-1
	PLAN A GMF SATCOM LINK	
TASK 2539.1.2	. . . . .	6-P-1
	DRAFT SATELLITE ACCESS REQUEST	
<u>DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS</u>		
TASK 2539.2.1	. . . . .	6-P-2
	DIRECT INSTALLATION OF GMF	
	SATELLITE COMMUNICATIONS (TACSAT)	
	SITE	
TASK 2539.2.2	6-P-2
	DIRECT INSTALLATION OF GMF	
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<u>DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL</u>		

ENCLOSURE (6)

MOS 2542, COMMUNICATION CENTER OPERATOR

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DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

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MOS 2581, RADIO FREQUENCY MANAGEMENT TECHNICIAN

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DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

ENCLOSURE (6)

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ENCLOSURE (6)

MOS 2591, OPERATIONAL COMMUNICATION CHIEF

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MOS 2500, BASIC OPERATIONAL COMMUNICATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2500.1.1 PLAN MOBILE ELECTRIC POWER GENERATOR (MEPG)
SUPPORT FOR COMMUNICATIONS OPERATIONS

CONDITION(S): Provided an Annex K, and references.

STANDARD: Prepare a logistics request for external power units, including MEPGS, citing equipment power requirements by location to meet total power requirements to support Annex K, per the references.

PERFORMANCE STEPS:

1. Determine number of sites requiring power.
2. List equipment requiring power by site (equipment density list).
3. Determine total power for each site.
4. Anticipate support requirements for each site:
5. Plan for generator pits.
6. Plan for maintenance site.
7. Plan grounding requirements.
8. Determine availability of commercial power.
9. Determine maintenance procedures.
10. Submit requirements for forklifts/crane/prime movers for departure and return.
11. Draw and inspect tentage and camouflage nets.
12. Determine circuit priorities and plan power distribution.
13. Coordinate with wire plan to avoid electronic interference on wirelines from power cables.
14. Draft a plan for MEPG support.
15. Submit draft for review.

REFERENCE(S):

1. TM 2000-15/2
2. FM 20-31
3. TM 5-765
4. TM 5-766
5. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.1.2 DIRECT HANDLING OF BATTERIES

CONDITION(S): Provided designated batteries, personnel, unit SOP and references.

STANDARD: The storage and disposal of batteries must be accomplished strictly per the unit SOP and references.

PERFORMANCE STEPS:

1. Assess storage and disposal requirements of batteries.
2. Inspect storage and disposal of batteries for:
 - a. Correct procedures.
 - b. Adherence to safety requirements.
3. Certify compliance with unit SOP and references.

REFERENCE(S):

1. TI-6135-15/3
2. DOT-E7052
3. MCO P4400.150

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.1.3 PLAN EQUIPMENT GROUNDING PROCEDURES

CONDITION(S): Provided a requirement to install tactical system, grounding material, and references.

STANDARD: Develop a plan which ensures proper grounding of communications and power equipment.

PERFORMANCE STEPS:

1. Determine that equipment fault protection and lightning protection systems are functional.
2. Plan for adequate material to construct earth electrode systems.
3. Incorporate periodic resistance testing in procedures.
4. Plan for and monitor proper grounding of generators.
5. Plan for a monitor proper grounding of both single site and collocated shelters and generators.

REFERENCE(S):

1. FM 11-490-9
2. FMFM 3-3
3. MIL-HDBK 419A
4. MIL-STD-188-124A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.1.4 PLAN JOINT/COMBINED INTER/INTRA OPERABILITY

CONDITION(S): Provided a joint/combined operation order/plan requiring interoperability and references.

STANDARD: Assist with the draft of a plan that provides for Marine Corps interoperability with joint/combined forces.

PERFORMANCE STEPS:

1. Analyze mission given in order/plan.
2. Coordinate operating procedures:
 - a. Callsigns.
 - b. Frequencies.
 - c. Communication security.
 - d. Equipment interfaces.
3. Identify compatibility of end user equipment.
4. Identify special communication requirements.
5. Submit recommendations to communication officer.

REFERENCE(S):

1. JCS PUB 12
2. FMFM 3-30
3. OH-3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.1.5 PREPARE USMTF AND GENADMIN MESSAGES

CONDITION(S): Provided commander's guidance and references.

STANDARD: Draft USMTF and GENADMIN messages per the reference.

PERFORMANCE STEPS:

1. Draft USMTF and GENADMIN messages.
2. Submit message for release authorization.
3. Release message.

REFERENCE(S):

1. USMTF Users Manual
2. NTP-3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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ENCLOSURE (6)

TASK: 2500.1.6 PLAN/ENACT ELECTROMAGNETIC INTERFERENCE (EMI)
CONTROL MEASURES

CONDITION(S): Provided with concept of operations, commander's guidance, and references.

STANDARD: Plan for the resolution of EMI with control measures which will support the concept of operations.

PERFORMANCE STEPS:

1. Ensure that coordination has been completed with the EWO for assistance in identifying threat sources.
2. Coordinate changes in frequency assignments as appropriate.
3. Conduct MIJI report reviews for interference incidents.
4. Ensure adequate separation between possible EMI emitters.
5. Train personnel on EMI procedures.
6. Ensure radiation hazards to personnel/fuels/explosives are considered in all communications aspects.

REFERENCE(S):

1. ACP-125
2. FM 24-2
3. TRADOC Pamphlet 252-23

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2500.2.1 CAMOUFLAGE COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided designated communication positions/equipment requiring camouflage, camouflage material, and the reference.

STANDARD: Camouflage per the reference.

PERFORMANCE STEPS:

1. Plan camouflage to blend with the natural terrain.
2. Choose type of material to be used:
 - a. Radar scattering.
 - b. Radar transparent.
 - c. Seasonal materials.
3. Emplace the camouflage.
4. Inspect daily and repair deterioration.

REFERENCE(S):

1. TM 5-1080-200-13&P

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ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.2.2 DIRECT CAMOUFLAGING OF COMMUNICATION ASSETS

CONDITION(S): Provided a list of available equipment and personnel, topographical map of objective area, results of site survey, camouflage material, and reference.

STANDARD: Camouflage assets to ensure wire positions are hidden.

PERFORMANCE STEPS:

1. Analyze terrain.
2. Identify type of camouflage needed.
 - a. Radar scattering.
 - b. Radar transparent.
 - c. Seasonal material.
3. Identify equipment for type of camouflage.
 - a. Vehicle.
 - b. Tents.
 - c. Equipment.
4. Plan camouflage to represent the terrain.
5. Observe installation for modifications.
6. Direct modifications when necessary.

REFERENCE(S):

1. TM 5-1080-200-13&P

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2500.3.1 WEATHERPROOF COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided designated equipment, duct tape, tools, bags descant dulseal, plastic bags, and references.

STANDARD: Weatherproof designated equipments so that they are operational but remain dry when exposed to inclement weather.

PERFORMANCE STEPS:

1. Gather materials.
 - a. Waterproofing paper.
 - b. Beeswax.
 - c. Desiccants.

- d. Humidity indicators.
- e. Duxseal.
- f. Tape.
- g. Waterproof plastic bags.
2. Clean thoroughly all jacks, plugs, cases, dials, and knobs.
3. Cover all sharp edges, clamps, screw heads, and other projections.
4. Seal equipment in waterproofing material.
5. Conduct operational check.

REFERENCE(S):

1. FMFM 4-6
2. MCO P4600.7
3. FMFM-4

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2500.4.1 PERFORM OPERATOR LEVEL PREVENTIVE MAINTENANCE
ON MOBILE ELECTRIC POWER GENERATORS (MEPG)

CONDITION(S): Provided operator's license, designated equipment, cleaning materials, and the references.

STANDARD: MEPG must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Inspect for leaks around crankcase and crankcase breather.
3. Inspect oil filter for loose or missing hardware.
4. Ensure oil lines are free of leaks, or breaks.
5. Ensure that engine oil level is correct.
6. Inspect fuel pumps for leaks, loose or missing hardware.
7. Inspect fuel filter to ensure that it is not clogged or dirty.
8. Ensure that air filter is free from excessive dirt and debris and that condition indicator is not on "Red".
9. Inspect for absence of fuel leaks in fuel lines or tank.
10. Inspect fuel tank cap and strainer for dirt.
11. Ensure that the battery electrolyte level is correct; battery caps present.
12. Inspect the battery case for cracks, leaks, dirt.
13. Ensure that the battery cables, and terminals are undamaged and tightly connected.

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14. Inspect all instrument gauges/meters are operational; no cracked or broken glass.
15. Ensure instrumental switches and lamps are operational.
16. Inspect exhaust system for leaks; no worn or defective clamps and gaskets.
17. Conduct operational check.
18. Complete equipment records.
19. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. Appropriate SL-3

ADMINISTRATIVE INSTRUCTIONS:

1. The Marine must be a licensed operator in order to perform PM.
-

TASK: 2500.4.2 MANAGE MIMMS DOCUMENTS (LM2, DPR, ERO)

CONDITION(S): Provide maintenance management records (LM2, DPR) and schedules, mission, T/O cover letter, T/E, Publications Listing, and references.

STANDARD: Interpret MIMMS documents to achieve/ensure the serviceability of unit communication equipment through the application of preventive and authorized corrective measures per the references.

PERFORMANCE STEPS:

1. Review all orders and directives pertaining to maintenance.
2. Review and update Publications Listing (PL).
3. Ensure proper maintenance is performed according to schedule per echelon level.
 - a. Preventive.
 - b. Scheduled.
 - c. Corrective.
4. Ensure proper maintenance records are maintained and current.
5. Ensure accountability of equipment within maintenance cycle.
6. Ensure timely reconciliations of maintenance management are made.
7. Ensure proper usage of maintenance management forms for the requisition of repair parts.
8. Establish calibration program.
9. Establish modification program.
10. Establish publication control.
11. Manage MIMMS/SASSY interface for communication-electronic equipment.
 - a. Review Daily Process Reports (DPR) for status of equipment.
 - b. Review LM2 reports.

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REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. UM 4790-5
4. FMFM 3-30
5. MCO P4790.1
6. MCO P5215.17
7. UM 4400-124
8. MCO P3000.11
9. MCO P4400.150
10. MCO P5600.31
11. MCO 4400.16
12. MCBUL 3000 Series

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.4.3 SUPERVISE MOTOR TRANSPORT MAINTENANCE

CONDITION(S): Provided references and maintenance schedule ensure preventive maintenance is performed.

STANDARD: Maintenance action to be completed in accordance with the appropriate references.

PERFORMANCE STEPS:

1. Identify motor transport assets required maintenance action.
2. Identify references to perform task.
3. Assign personnel to perform the task.
4. Supervise the task
5. Inspect the task.
6. Ensure administrative/MIMMS actions are completed.

REFERENCE(S):

1. TM 2320-10/6
2. TM 9-2320-272-10
3. TM 9-2330-275-14
4. TM 9-2320-264-10
5. TM 2320-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

TASK: 2500.5.1 PREPARE COMMUNICATIONS ASSETS FOR EMBARKATION

CONDITION(S): Provided operation order/plan, designated equipment, personnel, tools, embark material, embark plan, and references.

STANDARD: Embarkation to be carried out to meet the embark plan per the references and safety procedures.

PERFORMANCE STEPS:

1. Review unit SOP embarkation procedures.
2. Coordinate with unit embarkation personnel.
3. Ensure that embarkation boxes, pallets, and vehicles are marked.
4. Ensure that embarkation boxes/containers are waterproofed.
5. Ensure packing lists are prepared according to unit embarkation SOP.
6. Identify and package high security items and hazardous materials.
7. Ensure embarkation manifests and reports are updated and complete.
8. Submit embark data to embark officer for review.
9. Ensure that embarkation boxes are secured and banded.
10. Ensure communications rolling stock is prepared for embark.
11. Ensure equipment is properly and securely loaded into vehicles.
12. Conduct safety and load inspection on all vehicles.
13. Stage equipment to be embarked.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2500.5.2 EMBARK COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided designated equipments, embarkation boxes, packing materials and applicable technical manuals.

STANDARD: Prepare wire equipment for embarkation using embarkation material provided and applicable technical manual specifications.

PERFORMANCE STEPS:

1. Adhere to safety procedures.
2. Stage equipment to be embarked.
3. Provide input to embarkation manifest.
4. Prepare packing lists.
5. Mark embark boxes/pallets/vehicles.

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6. Waterproof embark boxes/vehicles.
7. Place packing lists inside appropriate embark boxes.
8. Secure and band embark boxes.
9. Secure equipment loaded into vehicles.
10. Equip vehicles with fording equipment.
11. Secure vans with proper tie downs.
12. (Drivers) Fill out trip ticket.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. FMFM-4

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2500.6.1 CONDUCT SKILL PROGRESSION TRAINING FOR
COMMUNICATIONS PERSONNEL

CONDITION(S): Provided commander's guidance, unit training SOP, unit training schedule, assigned training topic, personnel to receive training, appropriate technical manuals, a training site, and references.

STANDARD: Training will provide the Marines the skill and knowledge in an MOS to perform at a more skilled level or in a supervisory position.

PERFORMANCE STEPS:

1. Review commander's guidance.
2. Gather reference materials.
3. Study reference materials.
4. Develop training outline.
 - a. Determine tasks to be trained.
 - b. Determine sequence of tasks.
 - c. Determine time/space constraints.
 - d. Determine requirements/availability of assistants.
 - e. Determine resources required.
5. Rehearse presentation.
6. Prepare training site.
7. Arrange for special requirements (e.g., shade, heat, etc.).
8. Rehearse and evaluate assistants (if any).
9. Present class.
10. Allow time for Marines to practice.

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11. Evaluate Marines' performance to ensure learning.
12. Record and report training completed.

REFERENCE(S):

1. FMFRP 0-1
2. FMFRP 0-1A
3. FMFM 3-30
4. FM 24-20
5. Applicable TM's

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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MOS 2502, COMMUNICATION OFFICER

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2502.1.1 PLAN FOR AMPHIBIOUS COMMUNICATIONS

CONDITION(S): Provided planning directives or orders from Commander Amphibious Task Force (CATF) and Commander Landing Force (CLF), and references.

STANDARD: Prepare draft plan to meet the amphibious communication requirements given in the directives/orders per the references.

PERFORMANCE STEPS:

1. Analyze amphibious communications requirements.
 - a. Identify communication requirements for each phase of the operation.
 - b. Plan over-the-horizon (OTH) communications.
 - c. Plan dedicated SATCOM for the CLF.
 - d. Plan special communications requirements.
2. Make liaison with ships' personnel.
3. Identify available ship's communication equipment.
4. Establish priorities for equipment allocation.
5. Coordinate frequency usage.
6. Determine requirements for personnel augmentation.
7. Plan distribution of messages from the ship's message center.
8. Determine how Emission Control (EMCON) procedures will effect Marine Corps communications.
9. Provide plan to ship's communication officer.
10. Plan echelon of personnel and gear ashore.
11. Plan for battery storage afloat.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1
3. FMFM 3-30
4. NWP-4
5. FMFRP 3-32, TRI-MEF Communications SOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.2 PLAN A COMMUNICATION SYSTEM

CONDITION(S): Provided a mission, concept of operations, a commander's guidance, and references.

STANDARD: Develop a communication system which will support the concept of operations per the commander's guidance and references.

PERFORMANCE STEPS:

1. Conduct reconnaissance.
2. Determine equipment and personnel requirements.
3. Determine frequency requirements.
4. Request frequencies.
5. Select communications equipment to fulfill requirements.
6. Coordinate work effort of subordinates in developing radio, wire, and communication center plans.
7. Develop Command and Control Annex.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30 Appendix D
3. FM 24-18
4. FM 21-31

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.3 PLAN COMMUNICATION SECURITY

CONDITION(S): Provided a mission, concept of operations, a commander's guidance, and references.

STANDARD: Prepare COMSEC plans to meet the requirements of the OPODER/PLAN per the references.

PERFORMANCE STEPS:

1. Determine destruction procedures and use of SF-153.
2. Ensure responsible users are assigned.
3. Inventory all CMS material jointly; CMS custodian and responsible users must be present.
4. Determine field safe requirements.
5. Ensure adequate security and emergency action plans are designed for the deployment.
6. Report communication security violations.
7. Correct security violations.
8. Plan ECCM to counter enemy electronic warfare (EW).
9. Conduct rehearsal of emergency action plan.

REFERENCE(S):

1. FMFM 3-30 Appendix E

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2. FMFM 6-1A
3. CMS-4
4. OPNAVINST 5510.1
5. FMFM 2-3
6. FM 34-1
7. OPNAVINST 5510.1
8. CMS-5
9. ACP-122

ADMINISTRATIVE INSTRUCTIONS:

1. The emergency action plan rehearsal is a simulation in a training setting. No destruction of Government property will take place.
2. Any COMSEC violation must be reported through command channels to the controlling authority of the short title involved. Reports should be made by immediate message with addresses, including controlling authority, as per references.

TASK: 2502.1.4 PLAN ESTABLISHMENT COMMUNICATIONS ELEMENT OF A COMMAND POST

CONDITION(S): When given a concept of operation, scheme of maneuver, location and capabilities of enemy forces, site survey, Annex K, availability of personnel and equipment, commander's guidance, and references.

STANDARD: Plan establishment of communications element of a command post so that there is no disruption of communications per the commander's guidance and references.

PERFORMANCE STEPS:

1. Determine whether reliable communications can be made from the site.
2. Identify displacement requirements.
3. Determine cover and concealment of position from physical and electronic observation by the threat.
4. Determine trafficability as it relates to weather and terrain.
5. Consider defense of position.
6. Ensure the location supports maneuver.
7. Ensure an access route can be made available to the communication site.
8. Maintain supportability during all phases.
9. Determine logistics requirements.
10. Determine emplacement and construction of communication positions and equipment according to site surveys and established priorities.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1
3. FMFM 6-1

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.5 PLAN DATA COMMUNICATIONS

CONDITION(S): Provided a tactical scenario, availability of comm-elect assets, a precis of data requirements, and references.

STANDARD: Plan communication support for data systems which meets user requirements in accordance with the references.

PERFORMANCE STEPS:

1. Identify unsupportable requirements to ISMO.
2. Evaluate LAN connectivity requirements versus capabilities.
3. Identify computer systems.
4. Identify Tactical Data Comm Terminal requirements.
5. Identify required COMSEC.
6. Identify compatibility interface with other systems.
7. Prepare required appendixes to Annex K.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30
3. MTS TIDP, Volumes IV and V, Section 6
4. JCS PUB 6-05 Series
5. FMFRP 3-32 TRI-MEF Comm SOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.6 PLAN COMMUNICATIONS FOR JOINT/COMBINED OPERATIONS

CONDITION(S): Provided a tactical scenario involving a joint/combined operation, a mission, trooplist, T/E, commander's guidance, and references.

STANDARD: Plan communications support for the operation per the commander's guidance and the references.

PERFORMANCE STEPS:

1. Identify communications requirements.
2. Establish liaison with joint/combined forces communication personnel.
3. Coordinate operating procedures.
 - a. Coordinate call signs and frequencies.
 - b. Coordinate brevity list.
 - c. Coordinate message formats.

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- d. Coordinate cryptographic restart intervals.
- e. Coordinate circuit designation/restoration priorities.
4. Identify terminal equipment including cryptographic hardware and software.
5. Determine compatibility of terminal equipment including cryptographic hardware and software.
6. Resolve compatibility problems.
7. Determine equipment interfaces.
8. Identify special/nonstandard communication requirements.
9. Identify liaison teams for linkup operations.
10. Determine specific switching requirements to ensure interoperability of different service switches.

REFERENCE(S):

1. JCS PUB 12
2. JCS PUB 6-05 Series
3. FMFM 6-1
4. FMFM 3-30
5. FM 24-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.7 WRITE COMMUNICATIONS-ELECTRONICS ESTIMATE

CONDITION(S): Provided the METT, commander's planning guidance, task organization, courses of action, and references.

STANDARD: Write the communication estimate for each course of action to determine their advantages and disadvantages, and arrive at definite recommendations concerning each course of action in accordance with the references.

PERFORMANCE STEPS:

1. Assess the mission, planning guidance, and capabilities against courses of action.
2. Determine supportability of each course of action.
3. Identify advantages/disadvantages of each.
4. Prioritize courses of action considering reliability, security, speed, and flexibility of communications.
5. Provide recommendations to commander.

REFERENCE(S):

1. FMFM 3-30 Appendix C
2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.8 WRITE PARAGRAPH 5 TO AN OPERATION ORDER

CONDITION(S): Provided tactical scenario, ACEOI, operations overlay, commander's guidance, and references.

STANDARD: Write paragraph 5 per the references.

PERFORMANCE STEPS:

1. Review commander's guidance.
2. Coordinate with unit operations officer.
3. Write paragraph 5.
 - a. Command relationships.
 - b. Signal.
 - c. Command posts.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.9 DRAFT COMMUNICATIONS GUARD SHIFT

CONDITION(S): Provided a requirement to shift guard, local SOP, and references.

STANDARD: Draft guard shift in strict accordance with the references.

PERFORMANCE STEPS:

1. Determine addressees.
2. Determine effective start and termination times.
3. Determine guard list requirements.
4. Determine general message requirements.
5. Draft appropriate comm guard shift.
6. Submit comm guard shift for approval.

REFERENCE(S):

1. NTP-4
2. FMFM 3-30
3. NWP-11
4. DCA Circulars

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

1. (NONE)

TASK: 2502.1.10 DRAFT TELECOMMUNICATIONS SERVICE REQUEST
(TSR)

CONDITION(S): Provided requirement and references.

STANDARD: Draft TSR in strict accordance with the references.

PERFORMANCE STEPS:

1. Research references.
2. Determine information required.
3. Compile necessary information.
4. Draft TSR.
5. Submit for approval.

REFERENCE(S):

1. FMFM 3-30
2. NAVTELCOMINST 2880.1B
3. DCA Circulars

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.11 WRITE COMMUNICATIONS STANDING OPERATING
PROCEDURE

CONDITION(S): Provided the mission, unit T/O and T/E, directives from higher headquarters, commander's policy guidance, and references.

STANDARD: The SOP will prescribe and standardize the communication instructions to establish operational and administrative functions for the command in accordance with the references.

PERFORMANCE STEPS:

1. Draft SOP.
2. Staff SOP for review by subordinate commands.
3. Incorporate input.
4. Include emergency action plan.
5. Submit to commanding officer for signature.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1
3. OPNAVINST 5510.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.12 PREPARE SATELLITE ACCESS REQUEST

CONDITION(S): Provided a requirement and references.

STANDARD: Draft the request in accordance with the references.

PERFORMANCE STEPS:

1. Determine the requirement.
2. Establish liaison with controlling authority.
3. Identify UDRB number.
4. Compile necessary information.
5. Send the request.
6. Follow up with controlling authority.

REFERENCE(S):

1. NTP-4
2. NTP-2
3. NWP-4
4. FMFM 3-30
5. DCA Circulars
6. Appropriate NAVCAMS Instructions

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.13 PLAN A TACTICAL COMMUNICATION/MESSAGE
CENTER

CONDITION(S): Provided a mission, concept of operations, commander's guidance, and references.

STANDARD: Design a tactical communication/message center which will support the concept of operations per the commander's guidance and the references.

PERFORMANCE STEPS:

1. Conduct physical site reconnaissance if possible.
2. Identify equipment and personnel requirements.
3. Establish releasing procedures.
4. Establish courier/messenger service concept.
5. Set up/review records/logs/files.
6. Determine CMS requirements (hardware/software/backups).
7. Estimate number of incoming/outgoing messages.

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8. Determine number of message copies required by section/unit.
9. Determine procedures for handling high precedence traffic.
10. Determine emergency action message procedures.
11. Plan routing of messages.
12. Diagram message center spaces.
13. Determine cryptographic/physical security requirements.
14. Determine terminal equipment interface requirements (AN/UGC-74A, AN/UYK-83/85, AN/MS-63A).
15. Coordinate message drafting instructions/format with staff.
16. Coordinate comm guard shifts.
17. Coordinate lines/channelization/installation priorities with radio and wire sections.
18. Determine environmental requirements (air-conditioning/heating/additional filtering).
19. Update PLA data base.
20. Publish emergency action plan.
21. Draft the communication/message center plan.
22. Submit draft for review.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30 Appendix D
3. NTP-3
4. NTP-4
5. NWP-4
6. ACP122

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.1.14 PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS

CONDITION(S): Provided Annex K and a unit plan for use of electrical power, power consumption of communication equipment and other devices used by the unit, capabilities of MEP units, and references.

STANDARD: Plan for MEP units and location to meet the power requirements of the unit supported.

PERFORMANCE STEPS:

1. List communication equipment requiring mobile electrical power.
2. Determine number of sites needing electrical power.
3. Determine power distribution needs of equipment.
4. Determine quantity, type and size generator needed based on field requirement.
5. Determine engineer support personnel.

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6. Plan for backup units and spare parts.
7. Plan grounding requirements.

REFERENCE(S):

1. TM 2000-15/2
2. FM 20-31
3. TM 08712a-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2502.2.1 ENFORCE PREVENTIVE ECCM TECHNIQUES

CONDITION(S): Provided Annex K commander's guidance, communications equipment and personnel, and references.

STANDARD: Enforce preventive ECCM techniques in the installation of a communication system to reduce vulnerability to enemy EW per the commander's guidance and the references.

PERFORMANCE STEPS:

1. Minimize transmissions.
2. Protect transmissions from enemy interception.
3. Select a site which masks transmitted signals from enemy interception.
4. Practice radio telephone procedures.

REFERENCE(S):

1. FM 24-33
2. FMFM 3-30
3. FMFM 6-1A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.2.2 MANAGE INSTALLATION OF A FIELD WIRE SYSTEM

CONDITION(S): Provided a tactical scenario, Annex K, commanders guidance, a current list of assets, and references.

STANDARD: Manage installation of wire system to meet the requirement in the Annex K and in accordance with the references.

PERFORMANCE STEPS:

1. Inspect the wire system.
2. Correct discrepancies.

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REFERENCE(S):

1. FMFM 3-30
2. FM 24-20
3. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.2.3 MANAGE INSTALLATION OF A TACTICAL
COMMUNICATION CENTER

CONDITION(S): Provided a tactical scenario, Annex K,
commanders guidance, a current list of C-E assets, and
references.

STANDARD: Manage the installation of a tactical communication
center to meet the requirement in the Annex K and in accordance
with the references.

PERFORMANCE STEPS:

1. Inspect the communication center.
2. Correct discrepancies.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-17
3. FMFM 3-1
4. NTP-3
5. NTP-4
6. NWP-4
7. ACP 121
8. ACP 122

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.2.4 MANAGE INSTALLATION OF A FIELD RADIO SYSTEM

CONDITION(S): Provided a tactical scenario, Annex K,
commanders guidance, a current list of C-E assets, and
references.

STANDARD: Manage the installation of a radio system to meet
the requirement in the Annex K and in accordance with the
references.

PERFORMANCE STEPS:

1. Inspect the radio system.
2. Correct discrepancies.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-18
3. FMFM 3-1
4. NWP-4
5. FM 11-64

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2502.3.1 MANAGE OPERATION OF OPERATION SYSTEM CONTROL

CONDITION(S): Provided a mission, Annex K, availability of equipment and personnel, location of friendly and threat forces, SOP, and the reference.

STANDARD: Manage operations of SYSCON in order to provide operational status information on all unit organic communication equipment, and centralized control necessary for remedying any difficulties through a formal circuit restoration priority system and in accordance with the references.

PERFORMANCE STEPS:

1. Establish prioritization of circuits.
2. Task activities of TECHCON.
3. Direct activation/deactivation of circuits.
4. Direct Saville Advanced Remote Keying operations.
5. Establish alternate routes of communication services.
6. Maintain status boards of all circuits.
7. Inform commander and staff of communication situation.
8. Prepare and submit status reports.
9. Supervise and make emergency adjustments to existing communication system.

REFERENCE(S):

1. FMFM 3-30
2. KAG-46A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.3.2 MANAGE OPERATION OF A TECHNICAL CONTROL FACILITY (TECHCONFAC)

CONDITION(S): Provided a mission, Annex K, availability of equipment and personnel, location of friendly and threat forces, SOP, and the reference.

STANDARD: Manage TECHCONFAC in order provide operational status information on all unit organic communication equipment, and centralized control necessary for remedying any difficulties through a formal circuit restoration priority system and in accordance with the references.

PERFORMANCE STEPS:

1. Manage radio and antenna siting.
2. Manage cable routing.
3. Manage power sites/sources/routes.
4. Manage activities of technical control facilities.
5. Manage activation/deactivation of circuits per established prioritization of circuits.
6. Maintain status boards of all circuits.
7. Inform SYSCON of communication situation.
8. Prepare and submit status reports.
9. Supervise and make emergency adjustments to existing communication system.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-22

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2502.4.1 PREPARE MODIFICATION OF ALLOWANCE (MOA) REQUEST

CONDITION(S): Provided a requirement for comm-elect equipment not given in the unit T/O and references.

STANDARD: Draft MOA request per the references.

PERFORMANCE STEPS:

1. Analyze mission, operation order/plan, commander's estimate.
2. Review T/O and T/E.
3. Identify deficiencies/overages.
4. Submit MOA request.

REFERENCE(S):

1. UM 4400-124
2. FMFM 3-30
3. NAVMC 1017, Table of Authorized Materiel

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.4.2 MANAGE THE MAINTENANCE SUPPORT OF A DEPLOYED UNIT

CONDITION(S): Provided with deployed unit T/O and T/E, current equipment status report, and references.

STANDARD: Manage the maintenance support for the deployed unit per the references.

PERFORMANCE STEPS:

1. Establish liaison with the supporting CSSE.
2. Ensure Bill of Material (BOM) is sufficient.

REFERENCE(S):

1. FMFM 3-30
2. UM 4790-5
3. MCO P4790.1
4. MCO P3000.11
5. MCO P4400.150

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.4.3 MANAGE MIMMS IN SUPPORT OF UNIT MAINTENANCE

CONDITION(S): Provided maintenance management records (LM2, DPR) and schedules, mission, T/O cover letter, T/E, Publications Listing (PL), and references.

STANDARD: Manage communication maintenance program to ensure the serviceability of unit communication equipment through the application of preventive and authorized corrective measures per the references.

PERFORMANCE STEPS:

1. Ensure proper maintenance is performed according to schedule per echelon level.
2. Ensure proper maintenance records are maintained and current.
3. Ensure accountability of equipment within maintenance cycle.
4. Ensure timely reconciliations of maintenance management are made.
5. Inspect maintenance management program to ensure adherence to applicable directives.
6. Ensure personnel technical skills to provide an effective maintenance capability are commensurate with unit's echelon of repair and equipment allowances.
7. Conduct inspections to determine adequacy of maintenance program.
8. Ensure proper usage of maintenance management forms for the requisition of repair parts.
9. Establish calibration program.
10. Establish modification program.
11. Establish tool control.
12. Establish publication control.
13. Manage MIMMS/SASSY interface for communication-electronic equipment.

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REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. UM 4790-5
4. FMFM 3-30
5. MCO P4790.1
6. UM 4400-124
7. MCO P5600.31
8. MCBUL 3000 Series

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2502.4.4 PLAN SUPPLY REQUIREMENTS FOR COMMUNICATIONS

CONDITION(S): Provided a communication supply account, a mission, unit supply SOP, T/E, condition of equipment, operating budget, consolidated memorandum receipt (CMR), supplies, and references.

STANDARD: Plan for communication supply requirements such that unit readiness is not impaired by supply deficiencies, required reports are accurately made and on time, and prescribed levels of consumables are maintained in accordance with the references.

PERFORMANCE STEPS:

1. Inventory and validate T/E supply account.
2. Establish liaison with command supply officer.
3. Note discrepancies (excesses, deficiencies) if any.
4. Sign CMR; put in quarterly.
5. Ensure subcustodies are per applicable directives/procedures.
6. Establish level of consumables on-hand (batteries, wire).
7. Establish special tool allowance.
8. Publish authorization list for receiving supplies.
9. Monitor operating budget.
10. Submit required reports.
11. Manage storage of HAZMAT.

REFERENCE(S):

1. UM 4400-124
2. MCO P4790.2
3. FM 24-18
4. MCO P4400.150
5. MCO P3000.11

6. MCBUL 3000 Series

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

TASK: 2502.5.1 PLAN EMBARKATION OF COMM-ELECT EQUIPMENT AND SUPPLIES

CONDITION(S): When given a unit embarkation order, communication electronic equipment and supplies to be embarked, embarkation plan and schedule, and references.

STANDARD: Plan embarkation of communication-electronic equipment and supplies ensuring the embarkation manifest is updated and items are prioritized for embarkation in accordance with the references.

PERFORMANCE STEPS:

1. Establish liaison with unit embarkation officer.
2. Ensure embarkation NCO is assigned to complete embarkation.
3. Review the embarkation manifest for the unit.
4. Update the embarkation manifest to reflect current status of equipment.
5. Ensure adequate embark boxes are available and marked appropriately.
6. Ensure adequate waterproofing materials are on hand for deployment.
7. Prioritize items to be embarked.
8. Plan for combat loading equipment.
9. Plan for embarkation of HAZMAT.
10. Plan for embarkation of COMSEC.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. FMFM 4-2
4. NWP 22-6

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2502.6.1 MANAGE COMMUNICATION TRAINING

CONDITION(S): Provided the unit's annual training plan, monthly training schedules, and references.

STANDARD: Manage training in accordance with MCO 1510.83 Individual Training Standards for OCCFLD 25.

PERFORMANCE STEPS:

1. Establish training priorities.
2. Manage mission oriented training.
3. Manage skill progression training.
4. Prepare unit training plan.
5. Provide supervision at all levels during conduct of training.
6. Evaluate training.

REFERENCE(S):

1. MCO P1200.7
2. FMFM 3-30
3. MCO 1510.83
4. FM 24-20
5. FM 24-21
6. NWP-4
7. ACP 122
8. NTP-4

ADMINISTRATIVE INSTRUCTIONS: (NONE)

MCO 1510.83A
3 FEB 93

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DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2503.1.1 DEVELOP COMMUNICATIONS ESTIMATE

CONDITION(S): Provided the METT, commander's guidance, task organization, courses of action, and references.

STANDARD: The communication estimate will summarize significant factors affecting the situation, analyze the impact of the factors on each course of action, evaluate the courses of action to determine their advantages and disadvantages, and arrive at definite recommendations concerning the courses of action under consideration. The communication estimate will support the mission.

PERFORMANCE STEPS:

1. Assess the mission, planning guidance, and capabilities against courses of action.
2. Coordinate with the G/S-3.
3. Determine supportability of each course of action.
4. Prioritize courses of action.
5. Make recommendation to commander.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.2 CONDUCT COMMUNICATION SITE SURVEY

CONDITION(S): Provided topographical map, grid coordinates of potential sites, Annex K, scheme of maneuver, commander's guidance, and references.

STANDARD: Conduct survey to recommend sites for communication equipment to meet communication and security requirements of Annex K, commander's guidance, and the references.

PERFORMANCE STEPS:

1. Conduct site survey preparations.
2. Conduct site survey.
3. Submit site survey report.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 6-1A
3. FMFM 3-30

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.3 PREPARE COMMAND AND CONTROL SYSTEMS ANNEX

CONDITION(S): Provided the METT, topographical map of objective area, unit commander's planning guidance, concept of operations, task organization, estimates of supportability, SOP, and references.

STANDARD: The command and control systems annex will establish and direct unit support for the operation order including installation, operation, and maintenance in accordance with the references.

PERFORMANCE STEPS:

1. Analyze mission, planning guidance of operations, task organization, estimates of supportability, SOP.
2. Evaluate communication threat capable of disrupting the communication systems.
3. Evaluate friendly forces communication capabilities.
4. Assign specific tasks and responsibilities to all elements within the command.
5. Determine telecommunications center requirements.
6. Determine radio requirements.
7. Determine wire and multichannel communication requirements.
8. Determine PLRS employment requirements.
9. Determine visual and sound requirements.
10. Determine systems managements and control requirements.
11. Establish work restoration priorities.
12. Determine logistics requirements.
13. Determine maintenance requirements.

REFERENCE(S):

1. FMFM 3-1, pages 7-5 - 7-8
2. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.4 PREPARE FOR AMPHIBIOUS COMMUNICATIONS

CONDITION(S): Provided planning directives or orders from Commander Amphibious Task Force (CATF) and Commander Landing Force (CLF), and references.

STANDARD: Prepare draft plan to meet the amphibious communication requirements given in the directives/orders per the references.

PERFORMANCE STEPS:

1. Analyze amphibious communications requirements.
 - a. Identify communication requirements for each phase of the operation.
 - b. Plan over-the-horizon (OTH) communications.

- c. Plan dedicated SATCOM for the CLF.
- d. Plan special communications requirements (PLRS).
- 2. Make liaison with ships' personnel.
- 3. Identify available ship's communication equipment.
- 4. Establish priorities for equipment allocation.
- 5. Coordinate frequency usage.
- 6. Determine requirements for personnel augmentation.
- 7. Plan distribution of messages from the ship's message center.
- 8. Determine how Emission Control (EMCON) procedures will effect Marine Corps communications.
- 9. Provide plan to ship's communication officer.
- 10. Plan echelon of personnel and gear ashore.
- 11. Plan for battery storage afloat.

REFERENCE(S):

- 1. FMFM 3-30
- 2. FMFM 3-1
- 3. FMFM 3-30
- 4. NWP-4
- 5. FMFRP 3-32, TRI-MEF Communications SOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.5 PLAN COMMUNICATION SUPPORT FOR DATA SYSTEMS

CONDITION(S): Provided a mission, data systems with their capabilities/limitations, T/E, the path link and its purpose, and references.

STANDARD: Plan for communication support for data systems ensuring user requirements and support requirements are met in support of the mission in accordance with the references.

PERFORMANCE STEPS:

- 1. Establish liaison and coordinate requirements with ISMO (Information Systems Management Officer).
- 2. Determine supportability of communication system.
- 3. Determine user requirements.
- 4. Coordinate with technical controllers:
 - a. Circuit quality.
 - b. Circuit reliability.
- 5. Identify transmission media.
- 6. Identify supporting communications security devices.
- 7. Identify compatibility interface with other systems.

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REFERENCE(S):

1. FM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.6 PLAN JOINT INTEROPERABILITY FOR THE COMMAND

CONDITION(S): Provided a mission, operation orders/plans establishing the joint requirement, availability of equipment and personnel, other services' equipment and assets, and references.

STANDARD: Plan joint interoperability for the command ensuring communications are established and maintained with other services to support the mission in accordance with the references.

PERFORMANCE STEPS:

1. Analyze mission and operation orders/plans.
2. Establish liaison with other services' communication personnel.
3. Coordinate operating procedures.
 - a. Coordinate call signs and frequencies.
 - b. Coordinate brevity codes.
 - c. Coordinate message format.
 - d. Coordinate cryptographic restart intervals.
4. Identify and determine compatibility of end terminal equipment including cryptographic hardware and software.
5. Determine equipment interfaces.
6. Identify special communication requirements/liaison teams for linkup operations.
7. Determine COMSEC requirements.

REFERENCE(S):

1. JCS PUB 12
2. FMFM 3-1
3. FMFM 3-30
4. FM 24-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.7 PLAN MOBILE ELECTRIC POWER (MEP) REQUIREMENTS FOR COMMUNICATION OPERATIONS

CONDITION(S): Provided Annex K and a unit plan for use of house power to meet Annex K communication requirements, power consumption of communication equipment, capabilities of MEP units, and references.

STANDARD: The plan for MEP units will cite equipment power requirements by location and type to meet the total power requirements in support of Annex K.

PERFORMANCE STEPS:

1. List communication equipment requiring mobile electrical power.

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2. Determine number of sites needing electrical power.
3. Determine power distribution needs of equipment.
4. Determine quantity, type and size generator needed based on field requirement.
5. Determine engineer support personnel.
6. Plan for backup units and spare parts.
7. Plan grounding requirements.

REFERENCE(S):

1. TM 2000-15/2
2. FM 20-31
3. TM 08712a-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.8 DRAFT COMMUNICATIONS GUARD SHIFT

CONDITION(S): Provided a requirement to shift guard, local SOP, and references.

STANDARD: Draft guard shift in accordance with the references.

PERFORMANCE STEPS:

1. Determine addressees.
2. Establish liaison with action addressees.
3. Determine effective start and termination times.
4. Determine guard list requirements.
5. Determine general message requirements.
6. Draft appropriate comm guard shift.

REFERENCE(S):

1. NTP-4
2. NWP-11
3. DCA Circulars

ADMINISTRATIVE INSTRUCTIONS:

1. The guard shift message must be sent in time to reach the action addressees within the time limits specified in the references.
-

TASK: 2503.1.9 PREPARE SATELLITE ACCESS REQUEST

CONDITION(S): Provided a requirement and references.

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STANDARD: Draft the request in accordance with the references.

PERFORMANCE STEPS:

1. Determine the requirement.
2. Establish liaison with controlling authority.
3. Identify UDRB number.
4. Compile necessary information.
5. Send the request.
6. Follow up with controlling authority.

REFERENCE(S):

1. NTP-4
2. NTP-2
3. NWP-4
4. FMFM 3-30
5. DCA Circulars
6. Appropriate NAVCAMS Instructions

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.10 MAINTAIN COMMAND, CONTROL AND COMMUNICATIONS
SYSTEMS SOP

CONDITION(S): Provided the mission, T/O and T/E, directives from higher headquarters regarding the installation, operation, and maintenance of a unit's communication system, commander's guidance, and references.

STANDARD: Maintain the draft SOP to reflect change in the references.

PERFORMANCE STEPS:

1. Analyze mission, directives, policy guidance, and references.
2. SOP will include the following:
 - a. Training.
 - b. Safety.
 - c. Security (physical, transmission, emission, cryptographic, COMSEC).
 - d. Command and control.
 - e. Maintenance.
 - f. Continuing actions of Marines.
 - g. Operational procedures.
 - h. Embarkation procedures.
 - i. Maintenance.
 - j. Reports (administrative/operational).

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- k. ECCM.
- l. Automated Data Processing (ADP).
- 3. Staff SOP changes for review by subordinate commands.
- 4. Request recommendations and modification from platoon commanders.
- 5. Incorporate input.
- 6. Submit to commanding officer for signature.

REFERENCE(S):

- 1. FMFM 3-30
- 2. FMFM 3-1
- 3. OPNAVINST 5510.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.11 ESTABLISH LIAISON WITH COMMUNICATION AGENCIES

CONDITION(S): Provided an operation order/plan, a requirement for liaison, task organization, and the reference.

STANDARD: Liaison will allow prompt exchange of communication information, decisions, plans, orders, and instructions with senior, subordinate, adjacent, and supporting units.

PERFORMANCE STEPS:

- 1. Determine mutual interest of communication matters.
- 2. Determine representatives from other commands.
- 3. Make initial contact.
- 4. Ensure routing of correspondence and messages.
- 5. Conduct staff briefings.
- 6. Plan liaison meetings as required.
- 7. Format agenda items to be discussed.

REFERENCE(S):

- 1. FMFM 3-30
- 2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.12 COORDINATE COMMAND'S FREQUENCY ALLOCATION

CONDITION(S): Provided the location and number of circuits used or collocated, equipment lists and their capabilities, frequency ranges, emission designators, frequency request and allocation, and references.

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ENCLOSURE (6)

STANDARD: The draft frequency utilization plan will contain frequencies allocated from the frequency manager CEOI and will ensure the number of frequencies support the number and kinds of circuits available.

PERFORMANCE STEPS:

1. Determine type of communication system needed.
2. Establish liaison with other communication officers from other commands/services/agencies.
3. Coordinate protected nets/circuits.
4. Provide guidance concerning other devices (PLRS, chirpsounder) requiring frequencies.
5. Provide guidance to limit interference and override of frequencies.
6. Consider power limitations.
7. Ensure spare frequencies are available.
8. Ensure number of frequencies will support number and kinds of circuits available.
9. Request Automated Communication-Electronic Operation Instructions (ACEOI) from the next higher headquarters.
10. Coordinate distribution of frequencies/ACEOI.

REFERENCE(S):

1. FMFM 3-30
2. NTP-6

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.1.13 ADVISE ON LOCATION, ECHELONMENT, AND MOVEMENT OF COMMAND POST

CONDITION(S): Provided an operation order/plan, topographic map of objective area, initial command post location, general site locations of command post by operations officer, friendly forces' location, priorities of communication circuits, and references.

STANDARD: The command post location will exercise effective communication control and echelonment into the operating area while maintaining continuous communication.

PERFORMANCE STEPS:

1. Conduct reconnaissance.
2. Analyze communication systems.
 - a. Plans of supportability of communications at proposed site.
 - b. Communications en route.
 - c. Route and number of echelons.
 - d. Backup circuits.
 - e. Priorities of communication circuits.
3. Determine retransmission requirements.
4. State status of connectivity and communication at both sites.

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ENCLOSURE (6)

REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2503.2.1 COORDINATE LOCATION, ECHELONMENT OF COMMAND POST

CONDITION(S): Provided a concept of operation (location and maneuver route, destination of friendly forces), scheme of maneuver, location and capabilities of enemy forces, topographic map showing location for communication command post and communication units, results of site survey, Annex K of the operation order/plan, local SOP, availability of personnel and equipment, and references.

STANDARD: Coordinate location and echelonment of command post so that there is no disruption of communications.

PERFORMANCE STEPS:

1. Determine whether reliable communications can be made from the site.
2. Consider defense of position.
3. Ensure equipment can be provided protection from direct fire.
4. Ensure the location supports maneuver.
5. Ensure an access route can be made available to the communication site.
6. Ensure ongoing equipment maintenance can take place.
7. Coordinate communications for all echelons of the displacement.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1, pages 3-1, 4-8

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.2.2 DIRECT EMPLOYMENT OF COMMUNICATION ASSETS

CONDITION(S): Provided a mission, operation order/plan, and the reference.

STANDARD: Direct employment of communication assets in a technically and tactically sound manner to support the mission.

PERFORMANCE STEPS:

1. Analyze mission, operation order/plan, topographical map.
2. Review availability of equipment and personnel against mission requirements.
3. Consider type of operation.
 - a. Amphibious.
 - b. Airlift.

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- c. Helo.
 - d. Ground.
 - e. Foot/mobile.
 - f. Mech.
 - g. Maritime Prepositioning Shipping (MPS) operation.
- 4. Identify external support requirements.
 - 5. Continuously supervise employment of communication assets.

REFERENCE(S):

- 1. FMFM 3-30
- 2. MCO P3121.1B

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2503.3.1 MAINTAIN OPERATIONAL SYSTEM
CONTROL/TECHCONFAC

CONDITION(S): Provided a mission, Annex K, availability of equipment and personnel, topographical map of objective area, location of friendly and threat forces, SOP, and the references.

STANDARD: Maintain communication control through procedures which provide operational status information on all unit organic communication equipment, and centralized control necessary for remedying any difficulties through a formal circuit restoration priority system.

PERFORMANCE STEPS:

- 1. Establish prioritization of circuits.
- 2. Direct activities of technical control facilities.
- 3. Direct activation/deactivation of circuits.
- 4. Maintain status boards of all circuits.
- 5. Inform commander and staff of communication situation.
- 6. Prepare and submit status reports.
- 7. Supervise and make emergency adjustments to existing communication system.

REFERENCE(S):

- 1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2503.3.2 MONITOR COMMUNICATION SECURITY PROCEDURES

CONDITION(S): Provided Annex K, SOP containing emergency action plan, reporting criteria, and the references.

STANDARD: Monitor communication security procedures to advise commanders on the security risks resulting from their transmissions and to improve the security of communications. Any COMSEC violation, loss, compromise or procedural error will be reported through command channels to the controlling authority of the short title involved. Reports should be made by immediate message with addresses, including controlling authority, per the references.

PERFORMANCE STEPS:

1. Ensure physical, crypto, transmission, and emission security are maintained and proper COMSEC procedures are followed.
2. Ensure COMSEC awareness training is established.
3. Ensure commanders and staff are advised on security risks.
4. Report communication security violations.
5. Ensure security violations are corrected.
6. Ensure circuits are covered.
7. Record/state steps to reduce effectiveness of threat EW.
8. Ensure proper radio procedures are used to counter threat EW effort.
9. Conduct rehearsal of emergency action plan.

REFERENCE(S):

1. FMFM 3-30
2. CMS-4
3. OPNAVINST 5510.1
4. FMFM 2-3
5. FM 34-1
6. OPNAVINST 5510.1
7. CMS-5
8. ACP-122

ADMINISTRATIVE INSTRUCTIONS:

1. (NONE)

TASK: 2503.3.3 RESOLVE COMMUNICATIONS
RELIABILITY/AVAILABILITY PROBLEMS

CONDITION(S): Provided a communication system with degraded condition.

STANDARD: Resolve problems to maintain required communication support to the users.

PERFORMANCE STEPS:

1. Identify system components or procedures causing problem.
2. Develop and implement revised procedures if applicable.

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3. Identify marginal equipment from operator and user reports; request replacement or repair by appropriate section.
4. Implement backup communication channels where possible.
5. Request/requisition additional consumables or other resources if indicated.
6. Recommend system modifications required for long term improvement.

REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2503.4.1 DETERMINE PROCUREMENT/ALLOCATION OF COMM EQUIPMENT

CONDITION(S): Provided a mission containing a shortfall in T/E, operation order/plan, commander's estimate, T/O, T/E, Table Authorized Material (TAM), and references.

STANDARD: Recommend procurement/allocation of communication equipment by coordinating the submission of a Modification of Allowances (MOA) per TAM to support the mission.

PERFORMANCE STEPS:

1. Analyze mission, operation order/plan, commander's estimate.
2. Review T/O and T/E.
3. Coordinate the submission of T/E MOA request.

REFERENCE(S):

1. UM 4400-124
2. FMFM 3-30
3. MCO P4400.150

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

TASK: 2503.5.1 EMBARK COMM-ELEC EQUIPMENT AND SUPPLIES

CONDITION(S): Provided a unit embarkation order, communication electronic equipment and supplies to be embarked, embarkation plan and schedule, embark manifest, embark SOP, and the references.

STANDARD: Conduct embarkation of communication-electronic equipment and supplies in regard to prioritization of debarkation and movement of equipment and supplies to site location.

PERFORMANCE STEPS:

1. Adhere to embark SOP.
2. Coordinate with the embarkation officer.
3. Request embarkation manifest.
4. Ensure prioritization of equipment to be embarked.
5. Ensure prioritization of equipment debarkation for movement to site.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. MCO P4790.2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2503.6.1 DIRECT COMMUNICATION TRAINING FOR THE
COMMAND

CONDITION(S): Provided a unit's annual training plan, monthly training schedules, a list of available personnel by MOS and rank, T/E, training records, and the references.

STANDARD: Direct training in accordance with MCO 1510.83 Individual Training Standards for OCCFLD 25.

PERFORMANCE STEPS:

1. Identify training strengths and weaknesses of communication personnel.
2. Identify training strengths and weaknesses of unit.
3. Establish training priorities.
 - a. Mission oriented training.
 - b. Skill progression training.
 - c. Functional training.
 - d. Other related training.
4. Devise training plan to increase skill level of personnel/unit.
5. Schedule participants and trainers.

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6. Provide supervision at all levels during conduct of training.
7. Evaluate skill levels attained by instruction.

REFERENCE(S):

1. MCO P1200.7
2. FMFM 3-30
3. MCO 1510.83A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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MOS 2512, FIELD WIREMAN

DUTY AREA - PLAN COMMUNICATION SUPPORT

TASK: 2512.1.1 WRITE SYSTEM SUPPORT DOCUMENTS FOR AN INFANTRY
BATTALION OR COMPARABLE UNIT

CONDITION(S): Provided an Annex K, commander's guidance, and
references.

STANDARD: Write wire system support documents to satisfy Annex
K per the references.

PERFORMANCE STEPS:

1. Design wire system.
2. Determine assets available.
3. Determine formats.
4. Coordinate requirements with the staff.
5. Produce documents.
 - a. Telephone directory.
 - b. Circuit diagram.
 - c. Line route map.
 - d. Wiring plan.
 - e. Telephone traffic diagram.
 - f. Teletype traffic diagram.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2512.2.1 DIRECT INSTALLATION OF THE WIRE SYSTEM

CONDITION(S): Provided personnel, tools, equipment, a comm plan complete with a wire plan, unit SOP, commander's guidance and references.

STANDARD: Control the installation of a wire system which fulfills the wire plan per the commander's guidance and references.

PERFORMANCE STEPS:

1. Assign personnel.
2. Assign tasks.
3. Provide specific instructions.
4. Inspect progress periodically to insure compliance with instructions.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-20
3. FM 11-372-2/10
4. JCS PUB 29 VOL 2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.2 INSTALL AN/UIQ-10(V) PUBLIC ADDRESS SET

CONDITION(S): Provided AN/UIQ-10(V), and power source.

STANDARD: Install the AN/UIQ-10(V) per the reference.

PERFORMANCE STEPS:

1. Site equipment.
2. Set up speaker.
3. Connect power source.
4. Connect control unit master.
5. Apply power.
6. Conduct operational check.

REFERENCE(S):

1. TM 07675A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.3 INSTALL C-6709/G RADIO SET CONTROL

CONDITION(S): Provided with a C-6709/G, switchboard, unit SOP, radio equipment, and power source.

STANDARD: Install C-6709/G per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Connect power source.
3. Connect wires:
 - a. If NO crypto is used, connect wires on C-6709/G to switchboard and to radio.
 - b. If crypto is used, connect wires on C-6709 to the crypto device and connect the crypto device to the radio.
 - c. Verify each setting on the C-6709/G and the switchboard.
4. Connect head set to C-6709/G.
5. Apply power.
6. Conduct operation check.

REFERENCE(S):

1. TM 11-5820-615-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.4 INSTALL CX-11230()/G CABLE ASSEMBLY FOR UNIT LEVEL CIRCUIT SWITCH

CONDITION(S): Provided CX-11230()/G, a reeling machine, and wire grips.

STANDARD: Install CX-11230()/G per the reference.

PERFORMANCE STEPS:

1. Identify groups/pairs.
2. Identify connecting equipment.
3. Connect groups/pair to equipment.
4. Conduct line checks.

REFERENCE(S):

1. TM 11-5995-208-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.5 INSTALL PP-2953/U POWER SUPPLY

CONDITION(S): Provided PP-2953/U w/cables, designated equipment operating on 24v DC, and electrical tape.

STANDARD: Install PP-2953/U so that it is ready to supply 24v DC upon demand per the reference.

PERFORMANCE STEPS:

1. Ensure equipment is turned off.
2. Ground power supply.
3. Connect power supply to equipment.
4. Connect cables.
5. Apply power.
5. Conduct operational check.

REFERENCE(S):

1. TM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.6 INSTALL PP-6836/G POWER SUPPLY SET

CONDITION(S): Provided with a PP-6836/G w/cables, and designated equipment.

STANDARD: Install PP-6836/G so that it is ready to supply 24v DC upon demand per the reference.

PERFORMANCE STEPS:

1. Ground power supply.
2. Ensure correct cables are installed.
3. Ensure power supply is in off position.
4. Follow detailed instructions in the reference.

REFERENCE(S):

1. TKM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.7 INSTALL PP-7333 POWER SUPPLY

CONDITION(S): Provided with a PP-7333 w/cables, and designated equipment.

STANDARD: Install PP-7333 so that it is ready to supply 24v DC upon demand per the reference.

PERFORMANCE STEPS:

1. Ground power supply.
2. Ensure correct cables are installed.

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3. Ensure power supply is in off position.
4. Follow detailed instructions in the reference.

REFERENCE(S):

1. TM 08077A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.8 INSTALL SB-22/PT MANUAL TELEPHONE SWITCHBOARD

CONDITION(S): Provided with SB-22/PT, wire plan, and power source.

STANDARD: Install SB-22/PT to provide manual telephone switching per the wire plan, and the reference.

PERFORMANCE STEPS:

1. Select a flat, stable surface.
2. Ground switchboard with appropriate wire.
3. Install batteries in battery pack.
4. Attach head set to switchboard.
5. Conduct pre-operational checks.
6. Insert lines through rubber gasket.
7. Install identified wire lines in terminals.
8. Record line data on front of line packs, and line record plate.
9. Identify trunks, trunk packs, and run lines to them.
10. Perform line checks.
11. Install in a stack configuration.

REFERENCE(S):

1. TM 11-5805-262-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.9 INSTALL SB-3614()/TT AUTOMATIC SWITCHBOARD

CONDITION(S): Provided with SB-3614()/TT, power source, telephone, WD-1/TT, wire plan, and reference.

STANDARD: Install SB-3614()/TT, to provide switchboard services per the wire plan, and reference.

PERFORMANCE STEPS:

1. Select a flat, stable surface.
2. Ground switchboard before applying power.
3. Conduct preliminary starting procedures on SB-3614()/TT.

4. Perform operational check on SB-3614()/TT.
5. Program SB-3614()/TT.
6. Connect wire lines.
7. Perform line checks.
8. Install in a stacked configuration.

REFERENCE(S):

1. TM 11-5805-695-12

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure you have a correct numbering plan marked on the correct terminals.

TASK: 2512.2.10 INSTALL SB-3659()/U COMMUNICATION PATCHING
PANEL

CONDITION(S): Provided with SB-3659()/U, patch cords, CX-4566 telephone cable, and wire plan.

STANDARD: Install SB-3659()/U per the wire plan and reference.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Connect cable hooks in in/out cable.
3. Make necessary patches with patch cords.
4. Ensure cable ends are properly tagged.
5. Perform line checks.

REFERENCE(S):

1. TM 08228A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.11 INSTALL SB-4097/U COMMUNICATION PATCHING
PANEL

CONDITION(S): Provided with SB-4097/U, grounding rod, completed cut sheets, mounting hardware, tools, and telephone set.

STANDARD: Install SB-4097/U per the reference.

PERFORMANCE STEPS:

1. Select flat, stable surface.
2. Ground SB-4097/U.
3. Connect cables to SB-4097/U according to designated cut sheets.
4. Make appropriate patches.

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5. Perform circuit checks.

REFERENCE(S):

1. TM 08229A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.12 INSTALL TA-954/PT TELEPHONE SET

CONDITION(S): Provided TA-954/PT, field wire, tools, batteries, and wire plan.

STANDARD: Install TA-954/PT to provide telephone service to a distant phone or switchboard per the wire plan and the reference.

PERFORMANCE STEPS:

1. Ensure distant end is connected to switchboard.
2. Connect wires:
3. Tag and number wire and phone.
4. Perform line check.

REFERENCE(S):

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Next Task

TASK: 2512.2.13 INSTALL TA-312/PT TELEPHONE SET

CONDITION(S): Provided TA-312/PT, field wire, tools, batteries, and wire plan.

STANDARD: Install TA-312/PT to provide telephone service to a distant phone or switchboard per the wire plan and the reference.

PERFORMANCE STEPS:

1. Select mode setting.
2. Place batteries in telephone if necessary.
3. Connect wire to case and then to telephone.
4. Ensure distant end is connected to another telephone or switchboard.
5. Tag and number wire and phone.
6. Perform line check.

REFERENCE(S):

1. TM 11-5805-201-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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ENCLOSURE (6)

TASK: 2512.2.14 INSTALL TA-838/TT TELEPHONE SET

CONDITION(S): Provided with TA-838/TT, field wire, tools, batteries, and wire plan.

STANDARD: Install TA-838/TT to provide telephone service to a distant phone or switchboard per the wire plan and the references.

PERFORMANCE STEPS:

1. Select mode.
2. Place batteries in telephone, as required.
3. Connect wires to case and then to telephone.
4. Ensure distant end is connected to switchboard or telephone.
5. Ensure lock spring is in lock position of phone laying down; unlock position if hanging.
6. Perform line check.
7. Tag and number wire and phone.

REFERENCE(S):

1. TM 11-5805-650-12
2. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.15 INSTALL TA-937/GCC TELEPHONE LINE EQUALIZER

CONDITION(S): Provided with TA-937/GCC, TH-81, J-2790, WD-1/TT, a power source, and wire plan.

STANDARD: Install TA-937/GCC per the wire plan and the references.

PERFORMANCE STEPS:

1. Connect to power source.
2. Determine type of cable/wire.
3. Select correct terminals.
4. Connect cable/wire to terminal.
5. Connect wire to J-2790.
6. Apply power.
7. Conduct operational check.

REFERENCE(S):

1. TM 07651A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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ENCLOSURE (6)

TASK: 2512.2.16 INSTALL TA-938/G TELEPHONE SET

CONDITION(S): Provided TA-938/G, field wire, tools, wire plan, and references.

STANDARD: Install TA-938/G to provide telephone service to a distant phone or switchboard per the wire plan and the references.

PERFORMANCE STEPS:

1. Ensure distant end is connected to switchboard.
2. Connect wires:
 - a. On unmodified telephones, connect wire to C-block.
 - b. On modified telephones, connect wires to binding post on back of TA-938/G.
3. Tag and number wire and phone.
4. Perform line check.

REFERENCE(S):

1. IMI 50-002
2. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.17 INSTALL TA-1042 TELEPHONE SET

CONDITION(S): Provided TA-1042, field wire, tools, wire plan, and references.

STANDARD: Install TA-1042 to provide telephone service to a distant phone or switchboard per the wire plan and the references.

PERFORMANCE STEPS:

1. Ensure distant end is connected to switchboard.
2. Connect wires:
3. Tag and number wire and phone.
4. Perform line check.

REFERENCE(S):

1. TM 08789A-12/1
2. TM 08789B-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.18 INSTALL TA-977/PT TONE SIGNALING ADAPTER TO
SB-22/PT MANUAL TELEPHONE SWITCHBOARD

CONDITION(S): Provided TA-977/PT, WD-1 Field Wire, SB-22/PT
Manual Telephone Switchboard and TE-33 Tool Kit.

STANDARD: Connect TA-977/PT to the emergency operator portion
of the SB-22/PT Manual Telephone Switchboard to provide DTMF
signaling per the reference.

PERFORMANCE STEPS:

1. Use only in connection with TASS system.
2. Connect TA-977/PT to side of SB-22/PT.
3. Connect TA-977/PT to emergency operator terminals on
SB-22/PT.
4. Perform operational check.

REFERENCE(S):

1. TM 11-5805-262-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.19 INSTALL TSEC/HYX-57 WIRELINE ADAPTER

CONDITION(S): Provided TSEC/HYX-57 with batteries,
cryptographic hardware and software, WD-I/TT or WF-16 wire, and
references.

STANDARD: Install TSEC/HYX-57 per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Connect cryptographic hardware.
3. Apply power.
4. Load cryptographic software.
5. Conduct operational check.
6. Provide security.
7. Operate TSEC/HYX-57

REFERENCE(S):

1. TM 11-5810-292-OP-7
2. TM 11-5810-292-12
3. TM 11-5810-256-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.20 INSTALL STU-III SECURE TELEPHONE SET

CONDITION(S): Provided STU-III, telephone line, power converter line cord, seed key, and reference.

STANDARD: Install STU-III per the reference.

PERFORMANCE STEPS:

1. Connect STU-III to telephone line.
2. Connect STU-III to power source.
3. Apply power.

REFERENCE(S):

1. STU-III/SECTEL User's Guide

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.21 DIRECT STU-III INSTALLATION

CONDITION(S): Provided a requirement to provide replacement secure communications to AUTOSEVOCOM users and references.

STANDARD: Direct the systematic upgrade and replacement of existing systems with STU-III equipment while providing for future expansion.

PERFORMANCE STEPS:

1. Revalidate user requirements and communities of interest.
2. Prioritize the allocation of equipment and installation schedule.
3. Coordinate installation support as required.
4. Inspect installed equipment.
5. Direct modification as required.
6. Maintain serialized listing of phone locations.

REFERENCE(S):

1. Annex K
2. Local SOP
3. MOTOROLA STU-III User's Guide

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.22 BURY FIELD CABLE

CONDITION(S): Provided field cable, reeling machine, shovel, stakes, and unit SOP.

STANDARD: Bury field cable in trenches using techniques from unit SOP and the reference.

Appendix D to
ENCLOSURE (6)

PERFORMANCE STEPS:

1. Identify where cable/wire needs to be buried.
2. Dig trench to 6 to 12 inches deep (up to 36 inches in sandy soil).
3. Place wire/cable loosely in trench.
4. Drive wooden stake 1 foot from each end of trench.
5. Tie each end to the stake.
6. Tag each end 6 inches from tie on outside of stake.
7. Leave sufficient extra wire for replacement if wireline is damaged (a second wire may be placed in the trench in case of damage. If so, tie and tag replacement wireline).
8. Backfill trench avoiding stones or sharp objects which may damage wire.
9. Conduct line check when wireline is connected.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.23 INSTALL DISTRIBUTION BOX

CONDITION(S): Provided a designated distribution box, cable, tools, tags, and unit SOP.

STANDARD: Install a distribution box so that all wires are connected and operational per the reference.

PERFORMANCE STEPS:

1. Identify type of distribution box.
2. Identify pairs on distribution box.
3. Ground distribution box.
4. Tag all cables/wires connected to box.
5. Connect all wires to appropriate pairs.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.24 CONSTRUCT A DISTRIBUTION FRAME USING TERMINAL BOXES

CONDITION(S): Provided designated terminal boxes, wire lines, tools, wire line tags, and unit SOP.

STANDARD: Construct a distribution frame so that all wires are connected and operational to selected designations.

PERFORMANCE STEPS:

1. Identify types of terminal box(es) needed.
2. Install terminal box(es) on distribution frame.
3. Ground terminal box(es).
4. Connect wirelines to distribution frame.
5. Tag all wires/cable.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.25 MARK CABLE ROUTES ON TOPOGRAPHIC MAP

CONDITION(S): Provided a topographic map, grease pencil, compass, laminate sheet, unit SOP, and reference.

STANDARD: Submit a line route map per the reference.

PERFORMANCE STEPS:

1. Identify on map where cables are located.
2. Identify whether cables are aerial or surface or subsurface on map.
3. Identify all power cables and generators on map.
4. Identify cable designators on map.
5. Submit line route map.
6. Update line route map as changes occur.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.26 INSTALL FIELD CABLE CX-4566 SERIES

CONDITION(S): The Marine will be provided with field cable, reeling machine RL-31/RL-27, tags, tap, tools, unit SOP, and Comm Plan.

STANDARD: Install field cable to meet requirements of Comm Plan per the unit SOP and the reference.

PERFORMANCE STEPS:

1. Place reel of cable on reeling machine.
2. Pay out slowly, from topside, one Marine watching reel, one pulling cable.
3. When enough wire cable is laid, disconnect from reel, tag ends properly.

Appendix D to
ENCLOSURE (6)

4. Connect to necessary instrument, lay per the reference.
5. Conduct line checks.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.27 INSTALL LANCEPOLE PO-2 FOR OVERHEADING
FIELD WIRE

CONDITION(S): Provided PO-2 poles, tent stakes, line route map, tools, and lashing materials.

STANDARD: Overhead field wire per the reference.

PERFORMANCE STEPS:

1. Determine minimum amount of clearance required.
2. Lash poles together at the correct length for the clearance required.
3. Lay the poles parallel to the road or obstacle.
4. Tie the wireline to the insulator on the pole using a clove hitch.
5. Tie two guy wires to each pole within 6 inches of the top.
6. Raise each pole into position.
7. Tie each guy wire at a 45 degree angle away from the road or obstacle.
8. Tie the wireline to a stake at the bottom of the pole.
9. Tag the wireline 6 inches from the bottom of the pole.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.28 INSTALL BACKUP POWER FOR SB-3614()/TT
USING VEHICLE POWER

CONDITION(S): Provided SB-3614()/TT, W1 cable, and vehicle with 24 Vdc battery.

STANDARD: Install backup power per the reference.

PERFORMANCE STEPS:

1. Ensure power switch is turned off.
2. Remove W1 cable stored in rear cover of SB-3614()/TT.
3. Connect W1 cable to SB-3614()/T to either A or B connector and position switch accordingly.
4. Connect W1 cable to vehicle battery to obtain 24v.
5. Apply power to SB-3614()/TT.

Appendix D to
ENCLOSURE (6)

6. Conduct operational check.

REFERENCE(S):

1. TM 11-5805-695-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.2.29 SPLICE FIELD WIRE

CONDITION(S): Provided degraded equipment, splicing materials, tools, and reference.

STANDARD: Splice field wire using proper splicing materials per the reference.

PERFORMANCE STEPS:

1. Locate the fault.
2. Cut the wires to different lengths to stagger the ends.
3. Remove insulation from each wire.
4. Tie wires in a square knot to retain the tensile strength of the conductors.
5. Tape the splice to insulate and protect it.
6. Conduct line check.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2512.3.1 DIRECT OPERATION OF WIRE SYSTEM

CONDITION(S): Provided designated equipment, personnel, Annex K, cut sheets, unit SOP, and references.

STANDARD: Ensure operation of wire/cable system per the Annex K, cut sheets, unit SOP, and references.

PERFORMANCE STEPS:

1. Assess wire/cable operational requirements.
2. Assign wire personnel.
3. Inspect wire/cable system for deterioration.
 - a. Identify problems.
 - b. Direct corrective actions.
 - c. Inspect results.
4. Ensure personnel comply with correct operating procedures.

REFERENCE(S):

1. FM 24-20
2. FM 11-372-2/10
3. TM 9-2320-269-10
4. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.2 DIRECT OPERATION DIGITAL BACKBONE NETWORK

CONDITION(S): Provided Annex K, local CommSOP, commander's guidance and references.

STANDARD: Direct the operation of a digital backbone network in accordance with the reference.

PERFORMANCE STEPS:

1. Analyze user requirements as dictated by the tempo of operations.
2. Ensure periodic revalidation of types and quantities of terminal equipment and any special configuration requirements for each.
3. Reconfirm numbers, distances, and locations of nodes in the network.
4. Reconfigure as required, external network interfaces.
5. Reconfigure network COMSEC functions as required.
6. Execute reconfiguration plan based on equipment outages.
7. Direct corrective action to maintain cable routes for external network requirements.

REFERENCE(S):

1. Annex K
2. TM 08440A-12
3. TM 08339A-12
4. JCS Pub 6-05, Vol III
5. Local COMSOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.3 OPERATE AN/UIQ-10(V) PUBLIC ADDRESS (PA) SET

CONDITION(S): Provided with AN/UIQ-10(V), power source, and the reference.

STANDARD: Operate AN/UIQ-10(V) to provide PA support per the reference.

PERFORMANCE STEPS:

1. Perform operational checks.
2. Control volume/tone.

Appendix D to
ENCLOSURE (6)

3. Troubleshoot problems.
4. Perform PM.

REFERENCE(S):

1. TM 07675A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.4 CLIMB/DESCEND POLE/TREE UTILIZING
LC-240 CLIMBING EQUIPMENT

CONDITION(S): Provided LC-240, Gaff Gauge TL-144, LC-23()
Linemans Belt, helmet, ground safety observer, and
pole/tree.

STANDARD: Climb/descend a pole/tree per the reference while
adhering to all safety procedures.

PERFORMANCE STEPS:

1. Adhere to safety procedures.
2. Ensure equipment is SL-3 complete.
3. Select correct gaffs for pole/tree.
4. Check gaffs for thickness, width, and length with the
Buckingham kit gaff gauge.
5. Adjust LC-240 climber to leg size.
6. Inspect pole for soundness; inspect tree for firmness
and thickness of bark.
7. Climb pole/tree-carefully setting each gaff before
disengaging the other one, locking the stationary leg.
8. Look up to avoid obstructions while climbing.
9. Fasten safety strap at top of climb at least 12 inches
down from top of pole/tree.
10. Unfasten safety strap.
11. Descend pole carefully setting each gaff before
disengaging the other one.
12. Look down to avoid obstructions/objects while
descending.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

1. For safety purposes, the Marine must have Gloves LC-10,
and Safety Strap LC-23.

TASK: 2512.3.5 OPERATE PP-2953/U POWER SUPPLY

CONDITION(S): Provided PP-2953/U connected to a designated
piece of equipment of requiring 24v DC and the reference.

STANDARD: Operate the on/off switch on PP-2953/U to supply 24v DC power to the designated piece of equipment.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Check cables for correct connection.
3. Troubleshoot problems.
4. Perform PM.

REFERENCE(S):

1. TM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.6 OPERATE PP-6836/G POWER SUPPLY

CONDITION(S): Provided PP-6836/G, designated equipment, tools, and reference.

STANDARD: Operate PP-6836/G per the reference.

PERFORMANCE STEPS:

1. Check cables for correct connection.
2. Troubleshoot problems.
3. Perform PM.

REFERENCE(S):

1. TM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.7 OPERATE SB-22/PT MANUAL TELEPHONE SWITCHBOARD

CONDITION(S): Provided with an installed SB-22/PT, designated equipment, tools, unit SOP, telephone directory, and traffic diagram.

STANDARD: Provide manual switchboard service to subscribers per the references.

PERFORMANCE STEPS:

1. Answer calls.
2. Connect caller to desired line.
3. Connect conference calls, as required.
4. Check status of calls so they can be disconnected when completed.
5. Operate with/without audible drops.
6. Troubleshoot problems.

Appendix D to
ENCLOSURE (6)

7. Perform PM.

REFERENCE(S):

1. TM 11-5805-262-12
2. ACP-126
3. ACP-134 (A)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.8 OPERATE SB-3614()/TT AUTOMATIC TELEPHONE
SWITCHBOARD

CONDITION(S): Provided with an installed SB-3614()/TT, power source, designated equipment, tools, unit SOP, telephone directory, program worksheet, and traffic diagram.

STANDARD: Operate SB-3614()/TT to provide manual telephone service to subscribers per the references.

PERFORMANCE STEPS:

1. Verify switch settings on all terminal cords.
2. Assist subscribers who desire to dial through automatically.
3. Perform manual operator procedures as requested by subscriber:
 - a. Initiate local calls.
 - b. Initiate trunk calls.
 - c. Release calls.
 - d. Answer/extend incoming calls.
 - e. Make precedence extension/pre-emption calls.
 - f. Arrange conference calls.
 - g. Re-enter multiparty calls.
 - h. Perform call holding.
 - i. Perform call monitoring.
 - j. Program call intercept.
 - k. Rering calls.
 - l. Initiate test tones.
4. Troubleshoot problems.
5. Perform PM.

REFERENCE(S):

1. TM 11-5805-695-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.9 PERFORM CALL SERVICE ATTENDANT (CSA)
OPERATING PROCEDURES FOR SWITCHBOARD,
TELEPHONE, AUTOMATIC SB-3865 (P)/TTC

CONDITION(S): Provided an installed and initialized SB-3865
(P)/TTC and references.

STANDARD: Perform CSA procedures per the references.

PERFORMANCE STEPS:

1. Service nonsecure subscriber calls.
2. Service secure subscriber calls.
3. Dial outgoing calls.
4. Perform optional procedures and functions.
 - a. Hold call and recall.
 - b. Line split.
 - c. Release.
5. Perform unattended mode operations.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.10 PERFORM CALL SERVICE ATTENDANT (CSA)
OPERATING PROCEDURES ON THE CENTRAL OFFICE,
TELEPHONE, AUTOMATIC AN/TTC-42 (V)

CONDITION(S): Provided an installed and initialized AN/TTC-42
(V) and references.

STANDARD: Perform CSA procedures per the references.

PERFORMANCE STEPS:

1. Service nonsecure subscriber calls.
2. Set up nonsecure conference calls.
3. Service secure subscriber calls.
4. Set up secure conference calls.
5. Dial outgoing calls.
6. Monitor and release commercial lines.
7. Perform optional calling procedures and functions.
 - a. Call hold and recall.
 - b. Line split.
 - c. Call release.
8. Set CSU for unattended mode operation.

Appendix D to
ENCLOSURE (6)

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.11 INSPECT UTILITY POLE

CONDITION(S): Provided a utility pole, pike poles, a probe, and a mallet.

STANDARD: Check stability of pole above and below ground surface per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions, including:
 - a. Always test before climbing.
 - b. Do not rock the pole if there is a chance that it will cause damage if it falls.
 - c. Do not rock the pole if there is a chance that swaying telephone wires may contact power lines.
2. Gently rock pole back and forth at right angles to the lines with pike poles. A defective pole will crack or break.
3. Jab with a probe 6 inches below the ground line to reveal rotten wood.
4. Probe above ground to reveal rotten wood.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.3.12 OPERATE STU-III SECURE TELEPHONE SET

CONDITION(S): Provided installed STU-111, cryptographic ignition key (CIK), and the reference.

STANDARD: Place and receive secure telephone calls/data transmissions per the reference.

PERFORMANCE STEPS:

1. Apply power.
2. Place and receive calls.
3. Transmit and receive data.

REFERENCE(S):

1. STU-III/SECTEL User's Guide

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2512.4.1 DIRECT WIRE PREVENTIVE MAINTENANCE (PM)

CONDITION(S): Provided a PM mission, required personnel, equipment, and references.

STANDARD: Ensure that PM is accomplished effectively and efficiently in support of the unit mission.

PERFORMANCE STEPS:

1. Determine PM capabilities.
2. Evaluate available personnel.
3. Evaluate available equipment.
4. Analyze workload.
5. Establish PM priorities.
6. Assign individual PM actions.
7. Inspect completed PM actions.
8. Assign corrective action, as required.

REFERENCE(S):

1. UNIT T/E (CMR)
2. Appropriate Technical Publications
3. UNIT SOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.2 PERFORM PREVENTIVE MAINTENANCE ON TACTICAL SWITCHBOARDS

CONDITION(S): Provided with a tactical switchboard, power source, cleaning materials, tools, and the references.

STANDARD: Tactical switchboard must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Perform PM.
2. Report discrepancies.
3. Update record jackets.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. TM 08228A-14/1
4. TM 11-5805-695-12

Appendix D to
ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS:

TASK: 2512.4.3 PERFORM PREVENTIVE MAINTENANCE ON TELEPHONE INSTRUMENTS

CONDITION(S): Provided designated equipment, cleaning materials, and references.

STANDARD: Telephone instruments must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Perform PM.
2. Report discrepancies.
3. Update record jackets.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. TM 11-5805-201-12
4. TM 11-5805-650-12

ADMINISTRATIVE INSTRUCTIONS:

1. (NONE)
-

TASK: 2512.4.4 REPAIR WIRE FAULTS

CONDITION(S): Provided faulty wire, field telephone, tools, and tape.

STANDARD: Repair wire faults per the reference.

PERFORMANCE STEPS:

1. Locate wire fault.
2. Remove faulty section, as required.
3. Splice wire, if possible.
4. Replace faulty wire as required.
5. Test wire with field telephone.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.5 PERFORM PREVENTIVE MAINTENANCE ON A PUBLIC ADDRESS SET

CONDITION(S): Provided a public address set, cleaning material and the reference.

STANDARD: Public address set must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Perform PM.
2. Report discrepancies.
3. Update record jackets.

REFERENCE(S):

1. TM 07675A-14
2. TM 11-5830-239-15
3. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.6 PERFORM PREVENTIVE MAINTENANCE ON CX-11230()/G

CONDITION(S): Provided CX-11230()/G, halcyon, cable tester, shorting block, WD-1/TT wire, tools, junction box, cleaning equipment and references.

STANDARD: CX-11230()/G must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Clean all hooks cabling.
2. Connect shorting block to one end of cable.
3. Connect other end of cable to junction box.
4. Test each pair one at a time.
5. If any pairs do not work, initiate troubleshooting procedures.
6. Report discrepancies.
7. Update record jacket.

REFERENCE(S):

1. TM 11-6625-648-12
2. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.7 PERFORM PREVENTIVE MAINTENANCE ON LC-240
CLIMBING EQUIPMENT

CONDITION(S): Provided LC-240 equipment, LC-240 tool kit, and
cleaning materials.

STANDARD: LC-240 equipment must be free of dirt, debris, rust,
and corrosion; fully operational or discrepancies noted for
repair.

PERFORMANCE STEPS:

1. Test GAFFS with Buckingham gaff gauge.
2. Inspect leather parts including LC-23 Safety Belt:
 - a. Inspect leather for dry rot and cracks.
 - b. Ensure leather is soft by the use of saddle soap.
3. Check buckles and straps for serviceability.
4. Clean of dirt and debris.
5. Report discrepancies.
6. Update record jacket.

REFERENCE(S):

1. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.8 PERFORM PREVENTIVE MAINTENANCE ON A POWER
SUPPLY SET

CONDITION(S): Provided with a power source, extra fuses,
multimeter, and cleaning equipment.

STANDARD: Power must be free of dirt, debris, rust, and
corrosion; fully operational or discrepancies noted for
repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Test output with multimeter and an appropriate load
attached.
3. Clean dirt and debris.
4. Replace bad fuses.
5. Conduct operational check.
6. Complete equipment records.
7. Report discrepancies.
8. Update record jacket.

REFERENCE(S):

1. TM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.9 PERFORM PREVENTIVE MAINTENANCE ON A CX-4766
COMMUNICATION PATCHING PANEL

CONDITION(S): Provided a CX-4766, WD-1/TT, necessary tools,
cleaning materials and the reference.

STANDARD: CX-4766 must be free of dirt, debris, rust, and
corrosion; fully operational or discrepancies noted for
repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Check all patch cords, for serviceability.
3. Check all hooks with multimeter.
4. Clean off dirt and debris.
5. Perform operation check.
6. Complete equipment records.
7. Report discrepancies.
8. Update record jacket.

REFERENCE(S):

1. TM 08229A-14/1
2. TM 08228A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.10 PERFORM PREVENTIVE MAINTENANCE ON TA-937/GCC
TELEPHONE LINE EQUALIZER

CONDITION(S): Provided TA-937/GCC, cleaning equipment, replace
fuses, and the reference.

STANDARD: TA-937/GCC must be free of dirt, debris, rust, and
corrosion; fully operational or discrepancies noted for
repair.

PERFORMANCE STEPS:

1. Ensure equipment is clean and free of debris.
2. Ensure cords are not dry rotted.
3. Replace bad fuses.
4. Ensure handle spring is not broken.
5. Perform operational check.
6. Report discrepancies.
7. Update record jacket.

REFERENCE(S):

1. TM 07651A-14

Appendix D to
ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.11 PERFORM PREVENTIVE MAINTENANCE ON TSEC/HYX-57
WIRE LINE ADAPTER

CONDITION(S): Provided with TSEC/HYX-57 KY-57, KY-65, telephone equipment, WD-1/TT, hardware, software, tools, and cleaning equipment.

STANDARD: TSEC/HYX-57 must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Wipe exterior clean.
2. Check cables for dry rot.
3. Check connectors for dirt, corrosion.
4. Perform operational check.
5. Report discrepancies.
6. Update record jacket.

REFERENCE(S):

1. TM 11-5810-312-12-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2512.4.12 PERFORM PREVENTIVE MAINTENANCE ON
DISTRIBUTION BOX

CONDITION(S): Provided a distribution box, cleaning materials, and tools.

STANDARD: Distribution box must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Ensure equipment is free of dirt and debris.
2. Ensure terminals push down easily and come back up.
3. Ensure hook covers are serviceable and designator strips are present.
4. Ensure lid latch works properly.
5. Ensure all pairs work, all designator strips are present.
6. Ensure all hook covers are serviceable.
7. Report discrepancies.
8. Update record jacket.

REFERENCE(S):

1. Applicable Technical Manual

Appendix D to
ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

For a complete task list in this duty area for MOS 2512 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 5.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

For a complete task list in this duty area for MOS 2512 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 6.

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ENCLOSURE (6)

6-D-28

MOS 2513, CONSTRUCTION WIREMAN

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2513 is a skill designator for Marines who previously held MOS 2512. They are expected to maintain their proficiency in the 2512 tasks. For a complete list of 2513 tasks, include all of the tasks for MOS 2512.

TASK: 2513.1.1 PLAN A COMMERCIAL CABLE SYSTEM

CONDITION(S): Provided with a mission, local SOP, commander's guidance, and references.

STANDARD: Design a cable system to meet the mission requirements per the commander's guidance and references.

PERFORMANCE STEPS:

1. Conduct map and physical reconnaissance.
2. Determine cable routes.
3. Determine pole requirements.
4. Determine personnel requirements.
5. Draft the plan complete with line route map.
6. Submit the draft for review.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2513 is a skill designator for Marines who previously held MOS 2512. They are expected to maintain their proficiency in the 2512 tasks. For a complete list of 2513 tasks, include all of the tasks for MOS 2512.

TASK: 2513.2.1 DIRECT CONSTRUCTION OF AN OVERHEAD CABLE SYSTEM

CONDITION(S): Provided an Annex K complete with cable plan, personnel, tools, and equipment.

STANDARD: Direct and supervise a construction crew installing an overhead cable system.

PERFORMANCE STEPS:

1. Enforce safety precautions.
2. Set up M-876 telephone maintenance truck for augering.
3. Set up M-876 telephone maintenance truck for overhead work.
4. Install down guys and span guys for pole support.
5. Install messenger supporting hardware on poles and buildings.

Appendix E to
ENCLOSURE (6)

6. Install messenger for cable support.
7. Lash commercial cable to messenger.
8. Install suspension span.
9. Lay and connect cable.

REFERENCE(S):

1. FM 11-372-2/10
2. TM 11-2262-9
3. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.2 CONSTRUCT AN OVERHEAD CABLE SYSTEM

CONDITION(S): Provided with a supervisor, tools, equipment and references.

STANDARD: Construct an overhead cable system in accordance with the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Set up M-876 telephone maintenance truck for augering
3. Set up M-876 telephone maintenance truck for overhead work.
4. Set poles as required.
5. Install down guys and span guys for pole support.
6. Install messenger supporting hardware on poles and buildings.
7. Install messenger for cable support.
8. Lash commercial cable to messenger.
9. Install suspension span.
10. Attach extension ladder suspension span.
11. Lay and connect cable.

REFERENCE(S):

1. FM 11-372-2/10
2. TM 11-2262-9
3. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.3 PULL POLES USING M-876 TELEPHONE MAINTENANCE TRUCK

CONDITION(S): Provided with poles and maintenance truck.

STANDARD: Pull poles safely using M-876 truck per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Connect chain to poles.
3. Pull pole out of ground.
4. Lay pole on ground or trailer.

REFERENCE(S):

1. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.4 SUPERVISE LOADING/UNLOADING OF CABLE REELS AND POLES ON K-37 CABLE/POLE TRAILER

CONDITION(S): Provided with K-37 trailer, cable reels, telephone poles, personnel, and tools.

STANDARD: Cable must be loaded/unloaded safely.

PERFORMANCE STEPS:

1. Enforce safety precautions.
2. Assign tasks.
3. Emphasize safety precautions.
4. Inspect equipment.
5. Direct efforts of personnel to ensure loading is done correctly.
6. Unload cables in reverse order.
7. Enforce safety precautions.
8. Assign tasks.
9. Level the truck.
 - a. Select solid ground.
 - b. Lower the supports.
 - c. Watch the levels.
 - d. Block wheels.
 - e. Lock supports.
10. Ensure safety precautions are followed.
11. Load poles using ring pole method.
12. Tie down load after trailer is loaded.

Appendix E to
ENCLOSURE (6)

REFERENCE(S):

1. FM 11-372-2/10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.5 LOAD/UNLOAD COMMERCIAL CABLE REELS ON K-37
CABLE/POLE TRAILER

CONDITION(S): Provided a K-37 trailer, cable reels, telephone poles, supervisor, and tools.

STANDARD: Cable must be loaded/unloaded safely in accordance with the reference.

PERFORMANCE STEPS:

1. Take safety precautions.
2. Identify reels/poles to be loaded.
3. Check equipment for serviceability.
4. Load trailer according to reference.
5. Stay within allowable weight limit.
6. Tie down load after trailer is loaded.

REFERENCE(S):

1. FM 11-372-2/10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.6 LOAD/UNLOAD POLES ON K-37 CABLE/POLE
TRAILER

CONDITION(S): Provided a truck, supervisor, and necessary safety equipment.

STANDARD: Poles must be safely loaded/unloaded using king pole method in strict accordance with the reference.

PERFORMANCE STEPS:

1. Ensure safety of equipment.
2. Assist in leveling of truck.
3. Stay within allowable height/weight limit.
4. Load poles on K-37 cable pole trailer using the king pole method.
5. Unload poles in reverse order.

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.7 ARRANGE M-876 TELEPHONE MAINTENANCE TRUCK
FOR AUGERING

CONDITION(S): Provided an M-876 truck, personnel, all SL-3
equipment, and ground area to be augered.

STANDARD: Arrange M-876 truck for augering in strict
accordance with reference.

PERFORMANCE STEPS:

1. Take all necessary safety precautions.
2. Choose area for augering.
3. Setup auger per the reference.
4. Inspect equipment for proper operation.
5. Wear safety garments.

REFERENCE(S):

1. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.8 ARRANGE M-876 TELEPHONE MAINTENANCE TRUCK
FOR OVERHEAD WORK

CONDITION(S): Provided an M-876 truck, overhead area,
personnel, tools, and equipment.

STANDARD: Arrange M-876 truck for overhead work per the
reference.

PERFORMANCE STEPS:

1. Take all safety precautions.
2. Move to overhead area to work on.
3. Setup truck.

REFERENCE(S):

1. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.9 LASH COMMERCIAL CABLE TO MESSENGER USING
LC-231 LASHING MACHINE, CABLE GUIDE, AND
CABLE SUPPORT

CONDITION(S): Provided a messenger, LC-231, cable guide, and
cable support, and tools.

STANDARD: Lash commercial cable to messenger according to
reference.

PERFORMANCE STEPS:

1. Adhere to safety requirements to avoid damage to
cables.
2. Connect LC-231 to messenger.
3. Connect cable guide and cable support.

Appendix E to
ENCLOSURE (6)

4. Pull messenger down commercial cable.
5. Ensure messenger is lashing properly.

REFERENCE(S):

1. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.10 SET POLES USING M-876 TELEPHONE MAINTENANCE TRUCK

CONDITION(S): Provided with poles, and a maintenance truck.

STANDARD: Set poles safely using M-876 truck per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Level the truck.
3. Connect cable to pole.
4. Raise pole.
5. Set pole in hole.
6. Adjust pole to correct pitch.
7. Back fill hole.

REFERENCE(S):

1. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.11 SEND AND PACK COMMERCIAL CABLES IN MANHOLES

CONDITION(S): Provided a manhole, commercial cables, tools, and equipment.

STANDARD: Send and pack commercial cables.

PERFORMANCE STEPS:

1. Adhere to safety requirements.
2. Identify manhole.
3. Send cable into manhole.
4. Pack cable along side of underground system.

REFERENCE(S):

1. FM 11-372-2/10

Appendix E to
ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.12 BURY CABLE USING A CABLE PLOW AND OR DITCH
WITCHES

CONDITION(S): Provided a cable plow and cable on a reel.

STANDARD: Reel cable through cable plow/ditch witch, securing
of cable end, setting depth of plow plowing and packing of
ground after cable is laid.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Select route for cable.
3. Connect plow to vehicle.
4. Determine correct depth according to traffic areas and
soil composition.
5. Lead cable through plow.
6. Dig trench with plow.
7. Ensure cable feeds smoothly.
8. Ensure plow buries cable properly.
9. Adhere to safety requirements.

REFERENCE(S):

1. TM 11-2262-9
2. TM 10050A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.13 CLEAR BLOCKED CONDUITS USING ROD KITS AND
REAMERS

CONDITION(S): Provided a blocked conduit, rod kit, and
reamers.

STANDARD: Clear blocked conduits using rod kits and reamers.

PERFORMANCE STEPS:

1. Adhere to safety requirements.
2. Locate blocked conduit.
3. Use rod kit and reamer to clear block.

REFERENCE(S):

1. FM 11-372-2/10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.14 CONSTRUCT SURFACE MOUNTED CONDUIT SYSTEMS

CONDITION(S): Provided a conduit system, and tools.

STANDARD: Construct surface mounted conduit system.

PERFORMANCE STEPS:

1. Adhere to safety requirements.
2. Select route.
3. Determine amount of cable.
4. Select sight of conduit.
5. Elevate conduit system with supports.

REFERENCE(S):

1. FM 11-372-2/10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.15 CUT ASPHALT AND CONCRETE USING PIONJAR

CONDITION(S): Provided a pionjar, cutting blades, chalk and section of asphalt or concrete.

STANDARD: Cut asphalt or concrete per safety precautions and the reference.

PERFORMANCE STEPS:

1. Adhere to safety requirements.
2. Ensure continuous supply of water while cutting.
3. Install cutting blades on pionjar.
4. Using chalk, mark area to be cut.
5. Cut asphalt or concrete.

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.16 CUT TELEPHONE POLES USING CHAIN SAW

CONDITION(S): Provided a M-876 truck, chain saws, winch equipment for removing hardware, and pole to be removed.

STANDARD: Remove a pole safely by cutting with a chain saw per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions.

2. Remove all cable and hardware from pole.
3. Attach winch line to balance point on pole.
4. Using chain saw, cut pole.
5. Using winch, place pole on trailer.

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.17 INSTALL CONDUIT UNDER OBSTRUCTIONS USING A MOLE BORING MACHINE

CONDITION(S): Provided a mole boring machine, drill rods, drill bits and an obstacle.

STANDARD: Drill under an obstruction using a mole boring machine.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Determine depth of obstruction.
3. Install drill rod or drill bit to mole boring machine.
4. Drill under obstruction.
5. Install conduit.

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.18 INSTALL DOWN GUYS AND SPAN GUYS FOR POLE SUPPORT

CONDITION(S): Provided down guys, span guys, poles, hardware, and tools.

STANDARD: Install down guys and span guys per the reference.

PERFORMANCE STEPS:

1. Adhere to safety requirements.
2. Locate pole for guys.
3. Determine amount of guy support needed.
4. Install down guys and span guys on pole.
5. Adjust guy tension after cable installation.

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ENCLOSURE (6)

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.19 INSTALL WIRES IN CONDUIT SYSTEMS

CONDITION(S): Provided a pull wire, string, and vacuum.

STANDARD: Feed string through conduit and pull wire through conduit per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Attach pull wire to wire to be installed.
3. Lubricate the pull wire.
4. Attach string to pull wire.
5. Place string in conduit.
6. Position vacuum in other end of conduit.
7. Energize vacuum to retrieve string.
8. Pull string through conduit to retrieve pull wire.
9. Pull wire through conduit using pull wire.

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.2.20 PERFORM TAMPING USING PIONJAR

CONDITION(S): Provided a pionjar and tamping foot.

STANDARD: Tamp soil to original density one inch below surrounding surface per the reference.

PERFORMANCE STEPS:

1. Adhere to safety requirements.
2. Install tamping tool.
3. Tamp out designated area.

REFERENCE(S):

1. TM 11-2262-9

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Appendix E to
ENCLOSURE (6)

TASK: 2513.2.21 RECOVER COMMERCIAL CABLE

CONDITION(S): Provided commercial cable, cable trailer, tools, and vehicle.

STANDARD: Recover commercial cable per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions.
2. Identify cable start point.
3. Attach cable to reel.
4. Detach cable from supports.
5. Reel in cable.

REFERENCE(S):

1. TM 9-2320-269-10
2. FM 24-20
3. FM 11-372-2/10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2513 is a skill designator for Marines who previously held MOS 2512. They are expected to maintain their proficiency in the 2512 tasks. For a complete list of 2513 tasks, include all of the tasks for MOS 2512.

TASK: 2513.3.1 OPERATE M-876 TELEPHONE MAINTENANCE TRUCK UNDER UNUSUAL CONDITIONS

CONDITION(S): The Marine will be provided with M-876, applicable vehicle TM, and unusual driving conditions.

STANDARD: Operate per references.

PERFORMANCE STEPS:

1. Operate the vehicle in extreme cold.
2. Operate the vehicle in snow.
3. Operate the vehicle in dusty, sandy area.
4. Operate the vehicle under rainy, humid conditions.
5. Operate the vehicle in deep mud.
6. Operate the vehicle in extreme heat.
7. Complete applicable forms.

REFERENCE(S):

1. FM 55-15

2. TM 9-2320-260-10
3. TM 9-2320-272-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2513 is a skill designator for Marines who previously held MOS 2512. They are expected to maintain their proficiency in the 2512 tasks. For a complete list of 2513 tasks, include all of the tasks for MOS 2512.

TASK: 2513.4.1 DIRECT PREVENTIVE MAINTENANCE (PM) ON WIRELINE CONSTRUCTION EQUIPMENT

CONDITION(S): Provided a PM mission, required personnel, equipment, and references.

STANDARD: Ensure that PM is accomplished effectively and efficiently in support of the unit mission.

PERFORMANCE STEPS:

1. Determine PM capabilities.
2. Evaluate available personnel.
3. Evaluate available equipment.
4. Analyze workload.
5. Establish PM priorities.
6. Assign individual PM actions.
7. Inspect completed PM actions.
8. Assign corrective action, as required.

REFERENCE(S):

1. Unit T/E (CMR)
2. Appropriate Technical Publications
3. Unit SOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2513.4.2 PERFORM PREVENTIVE MAINTENANCE ON WIRELINE CONSTRUCTION EQUIPMENT

CONDITION(S): Provided with wireline construction equipment, cleaning materials, tools, and references.

STANDARD: Wireline construction equipment must be free of dirt, debris, rust and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Inspect all connecting hardware for serviceability.
3. Wash/clean/lubricate equipment.

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ENCLOSURE (6)

4. Perform vehicle PM on the M-876 truck.
5. Perform operational checks.
6. Complete equipment records.
7. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. Applicable Technical Publications

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2513 is a skill designator for Marines who previously held MOS 2512. They are expected to maintain their proficiency in the 2512 tasks. For a complete list of 2513 tasks, include all of the tasks for MOS 2512.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2513 is a skill designator for Marines who previously held MOS 2512. They are expected to maintain their proficiency in the 2512 tasks. For a complete list of 2513 tasks, include all of the tasks for MOS 2512.

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MOS 2515, ULS CENTRAL OFFICE OPERATOR/MAINTAINER

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2515 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2512, 2513, or 2519. The tasks in this section are only the additional tasks required for MOS 2515. For a complete task list for a Marine with MOS 2515, include all of the tasks for the Marine's primary MOS.

TASK: 2515.1.1 ASSIST UNIT LEVEL CIRCUIT SWITCH (ULCS) STAFF PLANNER WITH ULCS PLANNING

CONDITION(S): Provided a requirement, a tactical scenario, concept of operations, commander's guidance, unit SOP, and references.

STANDARD: Work with and provide assistance to the ULCS staff planner during the development of a ULCS switching plan per the references.

PERFORMANCE STEPS:

1. Analyze user requirements.
2. Identify ULCS resources.
3. Identify support equipment resources.
4. Compare requirements to resources.
5. Resolve shortages.
6. Issue guidance.
7. Develop draft network traffic diagram.
8. Identify each node or switch.
9. Assign network equipment.
10. Define switch rate.
11. Identify external network interfaces.
12. Define network COMSEC functions.
13. Define switch affiliations.
14. Define exit switch function.
15. Define interface parameters.
16. Define interoffice routing.
17. Define interarea routing.
18. Define NATO routing instructions.
19. Define fixed directory instructions.
20. Define zone restrictions.
21. Define single line termination trunk groups.
22. Define multiplexed trunk groups.
23. Establish control procedures.
24. Provide network planning data.
25. Perform command post survey.

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ENCLOSURE (6)

26. Allocate node equipment.
27. Assign analog single line terminations.
28. Assign subscribers to RMC's.
29. Establish locations for central connection points.
30. Define and collate cable types.
31. Determine cable routes for external network requirements.
32. Determine cable routes for internal node requirements.
33. Specify patching.
34. Configure single channel terminations.
35. Establish timeout control.
36. Establish routing management.
37. Assign DSVT voice loops.
38. Assign DSVT data loops.
39. Assign DSVT dual loops.
40. Assign DNVt voice loops.
41. Assign analog loops.
42. Assign loop groups.
43. Develop reconfiguration plan based on equipment outage.
44. Develop reconfiguration plan based on relocation.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2515 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2512, 2513, or 2519. The tasks in this section are only the additional tasks required for MOS 2515. For a complete task list for a Marine with MOS 2515, include all of the tasks for the Marine's primary MOS.

TASK: 2515.2.1 INSTALL CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)

CONDITION(S): Provided a requirement, AN/TTC-42 (V), tool kit, a location, and references.

STANDARD: Set up the AN/TTC-42 (V) for operation per the references.

PERFORMANCE STEPS:

1. Ensure site preparation.
2. Unpack equipment.
3. Install shelter.
4. Install voice orderwire control unit for either local or remote operation, as required.
5. Install call service unit (CSU) console.
6. Install maintenance telephone.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.2.2 INITIALIZE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)

CONDITION(S): Provided an installed AN/TTC-42 (V) and references.

STANDARD: Initialize the AN/TTC-42 (V) for full operation per the references.

PERFORMANCE STEPS:

1. Perform power-up procedures.
2. Perform shelter ancillary equipment turn-on procedures.
 - a. Lighting fixtures.
 - b. Air circulation blower.
 - c. Environment control units (ECU).
3. Perform system initialization procedures.
4. Perform VOCU receive level adjustments.
5. Perform visual display unit adjustments.
6. Place CSU console in operating mode.
7. Place engineering orderwire (EOW) in operational mode when VOCU is installed inside the shelter.
8. Place engineering orderwire (EOW) in operational mode when VOCU is installed outside the shelter.

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ENCLOSURE (6)

9. Perform maintenance supervisor position turn-on procedures.
10. Perform miscellaneous checks, adjustments, and tests.
11. Perform traffic entry procedures.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.2.3 INSTALL SWITCHBOARD, TELEPHONE, AUTOMATIC
SB-3865 (P)/TTC

CONDITION(S): Provided a requirement, SB-3865 (P)/TTC, tool kit, a location, and references.

STANDARD: Set up the switchboard for operation per the references.

PERFORMANCE STEPS:

1. Ensure site preparation.
 - a. Prepare equipment shelter.
 - b. Determine power source.
 - c. Prepare equipment foundation.
2. Unpack equipment.
3. Inspect equipment for damage.
4. Conduct inventory.
5. Install switch module.
6. Install power supply module.
7. Ground the equipment.
8. Connect cabling.
9. Install headset microphone.
10. Apply power.
11. Perform preoperational checks.
12. Perform initial power-on procedures.
13. Perform switch timing procedures.
14. Perform stacking installation procedures.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

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ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.2.4 INITIALIZE SWITCHBOARD, TELEPHONE, AUTOMATIC
SB-3865 (P)/TTC

CONDITION(S): Provided an installed SB-3865 (P)/TTC and
references.

STANDARD: Initialize the switchboard for full operation per
the references.

PERFORMANCE STEPS:

1. Perform preliminary checks.
2. Perform power-on procedures.
3. Initialize switch module processor.
4. Perform VDU tests.
5. Perform alarm and status indicator tests.
6. Perform EOW test and level adjustments.
7. Perform ventilation checks.
8. Perform traffic entry procedures for stand alone
operation.
9. Perform traffic entry procedures within a COMSEC
network.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2515 is an additional MOS only, assigned to
qualified Marines with a primary MOS of 2512, 2513, or
2519. The tasks in this section are only the additional
tasks required for MOS 2515. For a complete task list
for a Marine with MOS 2515, include all of the tasks for
the Marine's primary MOS.

TASK: 2515.3.1 PERFORM COMSEC OPERATING/INDEX PROCEDURES ON
THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC
AN/TTC-42 (V)

CONDITION(S): Provided an installed and initialized AN/TTC-42
(V) and references.

STANDARD: Perform COMSEC operating/index procedures per the
references.

PERFORMANCE STEPS:

1. Add, change, delete, and display COMSEC variable
assignments.
2. Rekey network switch.
3. Display/change network rekeying status.
4. Rekey lateral subnetwork.

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ENCLOSURE (6)

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.2 PERFORM SUPERVISOR OPERATING/INDEX PROCEDURES
ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC
AN/TTC-42 (V)

CONDITION(S): Provided an installed and initialized AN/TTC-42
(V) and references.

STANDARD: Perform supervisor operating/index procedures per the
references.

PERFORMANCE STEPS:

1. Perform supervisory system management procedures.
2. Perform supervisory configuration management procedures.
3. Perform supervisory terminal assignment procedures.
4. Perform supervisory routing assignment procedures.
5. Perform supervisory traffic management procedures.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.3 PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING
PROCEDURES ON THE CENTRAL OFFICE, TELEPHONE,
AUTOMATIC AN/TTC-42 (V)

CONDITION(S): Provided an installed and initialized AN/TTC-42
(V) and references.

STANDARD: Perform CSA procedures per the references.

PERFORMANCE STEPS:

1. Service nonsecure subscriber calls.
2. Set up nonsecure conference calls.
3. Service secure subscriber calls.
4. Set up secure conference calls.
5. Dial outgoing calls.
6. Monitor and release commercial lines.
7. Perform optional calling procedures and functions.
 - a. Call hold and recall.

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ENCLOSURE (6)

- b. Line split.
 - c. Call release.
 - d. Change precedence.
8. Set CSU for unattended mode operation.

REFERENCE(S):

- 1. TM 08440A-12/2-1
- 2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.4 OPERATE THE CENTRAL OFFICE, TELEPHONE,
AUTOMATIC AN/TTC-42 (V) UNDER NORMAL
CONDITIONS

CONDITION(S): Provided an installed and initialized AN/TTC-42
(V) and references.

STANDARD: Operate the AN/TTC-42 (V) per the references.

PERFORMANCE STEPS:

- 1. Operate the engineering orderwire (EOW) for both local and remote operation.
- 2. Operate the EOW control panel.
- 3. Perform maintenance index procedures:
- 4. Perform security index procedures.
- 5. Shutdown the AN/TTC-42 (V):

REFERENCE(S):

- 1. TM 08440A-12/2-1
- 2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.5 OPERATE THE CENTRAL OFFICE, TELEPHONE,
AUTOMATIC AN/TTC-42 (V) UNDER EMERGENCY
CONDITIONS

CONDITION(S): Provided an installed and initialized AN/TTC-42
(V), an emergency situation, and references.

STANDARD: Perform emergency operations per the references.

PERFORMANCE STEPS:

- 1. Perform CSU console emergency operating procedures.
 - a. Process alarm indications.
 - b. Process calls from zeroized DSVT's.
- 2. Perform supervisor emergency operating procedures.
 - a. Perform manual patching when SCPU fails.

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ENCLOSURE (6)

- b. Perform single channel patching and monitoring.
- c. Perform manual on-line processor selection.
- d. Perform EMP emergency procedures.
- 3. Perform emergency power switchover procedures.
- 4. Perform extreme temperature procedures.
- 5. Perform emergency COMSEC procedures.
- 6. Perform emergency shutdown procedures.
- 7. Perform destruction of material to prevent enemy use.

REFERENCE(S):

- 1. TM 08440A-12/2-1
- 2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.6 PERFORM SUPERVISOR OPERATING/INDEX PROCEDURES
FOR SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865
(P)/TTC

CONDITION(S): Provided an installed and initialized SB-3865
(P)/TTC and references.

STANDARD: Perform supervisor functions per the references.

PERFORMANCE STEPS:

- 1. Perform system management procedures.
- 2. Perform configuration management procedures.
- 3. Perform terminal assignment procedures.
- 4. Perform routing assignment procedures.
- 5. Perform traffic management procedures.

REFERENCE(S):

- 1. TM 08439A-10/1
- 2. TM 08439A-12/2-1
- 3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.7 PERFORM CALL SERVICE ATTENDANT (CSA) OPERATING
PROCEDURES FOR SWITCHBOARD, TELEPHONE,
AUTOMATIC SB-3865 (P)/TTC

CONDITION(S): Provided an installed and initialized SB-3865
(P)/TTC and references.

STANDARD: Perform CSA procedures per the references.

PERFORMANCE STEPS:

1. Service nonsecure subscriber calls.
2. Service secure subscriber calls.
3. Dial outgoing calls.
4. Perform optional procedures and functions.
 - a. Hold call and recall.
 - b. Line split.
 - c. Release.
 - d. Change precedence.
5. Perform unattended mode operations.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. T 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.8 OPERATE SWITCHBOARD, TELEPHONE, AUTOMATIC
SB-3865 (P)/TTC UNDER NORMAL CONDITIONS

CONDITION(S): Provided an installed and initialized SB-3865
(P)/TTC and references.

STANDARD: Operate the SB-3865 (P)/TTC per the references.

PERFORMANCE STEPS:

1. Make and answer engineering orderwire (EOW) calls.
2. Perform hybrid stacking procedures.
3. Perform stacking procedures for two or three units.
4. Perform COMSEC operating/index procedures.
 - a. Assign variables.
 - b. Change passwords.
5. Perform maintenance index procedures.
 - a. Perform equipment diagnostic tests.
 - b. Change BSU status.
 - c. Perform disabled equipment display procedures.
 - d. Perform critical equipment display procedures.
 - e. Perform equipment codes display procedures.
6. Shutdown the switchboard.

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- a. Shutdown switch module.
- b. Shutdown power supply module.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.3.9 OPERATE SWITCHBOARD, TELEPHONE, AUTOMATIC
SB-3865 (P)/TTC UNDER EMERGENCY CONDITIONS

CONDITION(S): Provided an installed and initialized SB-3865
(P)/TTC, an emergency situation, and references.

STANDARD: Perform the correct procedures in response to an
emergency situation per the references.

PERFORMANCE STEPS:

1. Change switch to emergency/EMP emergency mode.
2. Mark failed loops/MUX groups out-of-service.
3. Perform procedures for:
 - a. Switch processor failure.
 - b. Call service position failure.
 - c. Defective BSU tape cartridge.
 - d. Line termination unit failure.
 - e. Manual patching.
4. Perform emergency power switchover procedures.
5. Perform extreme temperature procedures.
6. Perform emergency COMSEC procedures.
7. Perform emergency shutdown procedures.
8. Perform destruction of material to prevent enemy use.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2515 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2512, 2513, or 2519. The tasks in this section are only the additional tasks required for MOS 2515. For a complete task list for a Marine with MOS 2515, include all of the tasks for the Marine's primary MOS.

TASK: 2515.4.1 PERFORM CALL SERVICE ATTENDANT (CSA) MAINTENANCE ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)

CONDITION(S): Provided an installed and initialized AN/TTC-42 (V) and references.

STANDARD: Perform CSA maintenance per the references.

PERFORMANCE STEPS:

1. Detect faults for CSU console.
2. Perform scheduled/preventive maintenance services for CSU console.
 - a. Inspect cabling.
 - b. Inspect headset-microphone.
 - c. Inspect panel and cable assembly.
 - d. Inspect cover.
 - e. Verify indicators status.
 - f. Perform CSU lamp/alarm test.
 - g. Perform CSU operational test.
 - h. Inspect and clean exterior surfaces.
3. Report discrepancies.
4. Update equipment records.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.4.2 PERFORM OPERATOR/MAINTAINER MAINTENANCE ON THE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V)

CONDITION(S): Provided an installed and initialized AN/TTC-42 (V), tools, and references.

STANDARD: Perform maintenance per the references.

PERFORMANCE STEPS:

1. Perform scheduled/preventive maintenance services.
2. Perform initial troubleshooting procedures.
3. Perform subsystem detailed troubleshooting.
4. Perform unit/module detailed troubleshooting.

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5. Perform CCA detailed troubleshooting.
6. Perform signal path detailed troubleshooting.
7. Repair shelter by removing/replacing components.
8. Repair red switch cabinet by removing/replacing components.
9. Repair black switch cabinet by removing/replacing components.
10. Repair COMSEC cabinet by removing/replacing components.
11. Repair maintenance supervisor position by removing/replacing components.
12. Repair call service unit (CSU) console by removing/replacing components.
13. Repair voice orderwire control unit (VOCU) by removing/replacing components.
14. Repair power distribution cabinet by removing/replacing components.
15. Repair environmental control units (ECU) by removing/replacing components.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3
3. KAM-354 (E-1)
4. TM 07592B-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.4.3 PERFORM CALL SERVICE ATTENDANT (CSA)
MAINTENANCE ON THE SWITCHBOARD, TELEPHONE,
AUTOMATIC SB-3865 (P)/TTC

CONDITION(S): Provided a SB-3865 (P)/TTC, cleaning materials,
and references.

STANDARD: Perform CSA maintenance per the references.

PERFORMANCE STEPS:

1. Respond to visual and audible alarms indicating faults.
2. Clean exterior surfaces.
3. Visually check:
 - a. Exterior cables.
 - b. Case and nest assembly.
 - c. Covers.
 - d. Headset.
 - e. Exterior surfaces.
 - f. Indicators and lamps.
 - g. Ground rod.
 - h. Tape cartridge.

4. Report discrepancies.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.4.4 PERFORM INSTALLER/MAINTAINER MAINTENANCE ON
THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865
(P)/TTC

CONDITION(S): Provided a SB-3865 (P)/TTC, tools, repair parts,
and references.

STANDARD: Perform maintenance per the references.

PERFORMANCE STEPS:

1. Perform scheduled preventive maintenance.
2. Perform initial troubleshooting procedures.
3. Perform subsystem detailed troubleshooting procedures.
4. Perform unit/module detailed troubleshooting procedures.
5. Perform CCA detailed troubleshooting procedures.
6. Perform signal path detailed troubleshooting procedures.
7. Repair switch module by removing/replacing components.
8. Repair power supply module by removing/replacing components.
9. Maintain battery.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2515 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2512, 2513, or 2519. The tasks in this section are only the additional tasks required for MOS 2515. For a complete task list for a Marine with MOS 2515, include all of the Marine's primary MOS.

TASK: 2515.5.1 PREPARE CENTRAL OFFICE, TELEPHONE, AUTOMATIC AN/TTC-42 (V) FOR EMBARKATION/TRANSPORT

CONDITION(S): Provided the AN/TTC-42 (V), Tools, and references.

STANDARD: Prepare for embarkation/transport per the references.

PERFORMANCE STEPS:

1. Prepare shelter exterior for movement.
2. Prepare shelter interior for movement.
3. Assist loading/unloading shelter using designated transport vehicle.

REFERENCE(S):

1. TM 08440A-12/2-1
2. TM 08440A-35/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2515.5.2 PREPARE THE SWITCHBOARD, TELEPHONE, AUTOMATIC SB-3865 (P)/TTC FOR EMBARKATION

CONDITION(S): Provided a SB-3865 (P)/TTC and references.

STANDARD: Pack the switchboard for embarkation/transportation.

PERFORMANCE STEPS:

1. Disconnect cables, lines, and power supply.
2. Repack equipment:
 - a. Switch module.
 - b. Power supply module.
 - c. Ground rod.
 - d. Power and interunit connectors.
 - e. Headset microphone.
 - f. Operators manual.

REFERENCE(S):

1. TM 08439A-10/1
2. TM 08439A-12/2-1
3. TM 08439A-35/3

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2515 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2512, 2513, or 2519. The tasks in this section are only the additional tasks required for MOS 2515. For a complete task list for a Marine with MOS 2515, include all of the tasks for the Marine's primary MOS.

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DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2519.1.1 PLAN WIRE COMMUNICATIONS

CONDITION(S): Provided a mission, concept of operations, commanders guidance, and references.

STANDARD: Design a wire system which will support the concept of operations per the commander's guidance and references.

PERFORMANCE STEPS:

1. Conduct map weather and terrain analysis.
2. Conduct communication site survey, if possible.
3. Determine equipment and personnel requirements.
4. Draw a line route map.
5. Identify telephone users.
6. Determine priorities for installation of lines and telephones.
7. Produce documents.
 - a. Telephone directory.
 - b. Circuit diagram.
 - c. Line route map.
 - d. Wiring plan.
 - e. Telephone traffic diagram.
 - f. Teletype traffic diagram.
8. Draft the wire plan.
9. Submit the plan for review.

REFERENCE(S):

1. FM 24-20
2. FMFM 3-1
3. FMFM 3-30 Appendix D

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.2 PLAN A COMMERCIAL CABLE SYSTEM

CONDITION(S): Provided with a mission, local SOP, commander's guidance, and references.

STANDARD: Design a cable system to meet the mission requirements per the commander's guidance and references.

PERFORMANCE STEPS:

1. Conduct reconnaissance.
2. Determine equipment requirements.
3. Determine personnel requirements.
4. Draft the plan complete with line route map.
5. Submit the draft for review.

REFERENCE(S):

1. FMFM 3-30
2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.3 PLAN ROUTE FOR FIELD WIRE AND CABLE LAYING

CONDITION(S): Provided the site survey, tactical scenario, Annex K, Table of Equipment (T/E), and references.

STANDARD: Submit a line route map which meets the requirements of the tactical scenario per the references.

PERFORMANCE STEPS:

1. Conduct reconnaissance.
2. Select and clearly mark on a map the exact route along which the wire is to be laid. Select a route that meets the requirements of the tactical situation and is the least difficult for construction and maintenance or wire line.
3. Submit line route map for review.

REFERENCE(S):

1. FM 11-372-2/10
2. FM 24-20
3. TM 9-2320-269-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.4 PLAN A TACTICAL DIGITAL SWITCHING NETWORK

CONDITION(S): Provided a concept of operations, commander's guidance and references.

STANDARD: Plan a network which will support the concept of operations per the commander's guidance and references.

PERFORMANCE STEPS:

1. Conduct site survey or map analysis.
2. Analyze user requirements.

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3. Identify equipment and personnel resources.
4. Identify available support equipment.
5. Identify types and quantities of cable systems.
6. Develop network traffic diagram.
7. Define network equipment.
8. Identify external network interfaces.
9. Define network COMSEC functions.
10. Define single line termination trunk groups.
11. Define multiplexed trunk groups.
12. Develop a reconfiguration plan based on equipment outages.
13. Determine cable routes for external network requirements.

REFERENCE(S):

1. TM 08440A-12
2. TM 08339A-12
3. JCS Pub 6-05, Vol III
4. Local COMSOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.5 PLAN FIBER OPTIC CABLE (FOCS)

CONDITION(S): Provided a mission, concept of operations, commander's guidance, and references.

STANDARD: Plan the connectivity required between transmission and switching equipment to support the concept of operations.

PERFORMANCE STEPS:

1. Conduct site survey or map/terrain analysis.
2. Analyze user digital switch trunk group requirements and digital switching system and wideband transmission system node locations.
 - a. AN/TTC-42
 - b. SB-3865
 - c. TD-1234 RMC
 - d. AN/TRC-170
 - e. AN/MRC-142
3. Determine lengths and quantities of fiber and repeaters required.
4. Fiber Optic Cable Assembly (FOCA) CX-13295/G
5. Converter Set AN/GSC-54

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ENCLOSURE (6)

6. Design the distribution routes and right-of-way and plan underground trenching and aerial installation as appropriate.
7. Submit plan for approval.

REFERENCE(S):

1. TM 11-6020-200-10
2. TC 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.6 PLAN STU-III OPERATIONS

CONDITION(S): Provided a requirement to provide replacement secure communications to AUTOSEVOCOM users and references.

STANDARD: Develop a plan to systematically upgrade and replace existing systems while providing for future expansion.

PERFORMANCE STEPS:

1. Identify user requirements and communities of interest.
2. Identify telephone requirements.
3. Identify data communication requirements.
4. Ensure proper security maintained.

REFERENCE(S):

1. MOTOROLA STU-III Users Guide

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.7 PLAN DNVF OPERATIONS

CONDITION(S): Provided a concept of operations, commander's guidance and references.

STANDARD: Ensure that digital non-secure voice terminal TA-954 employment and operation supports the concept of operation.

PERFORMANCE STEPS:

1. Review concept of operation.
2. Consolidate user requirements.
3. Plan major functions.
4. Plan employment mode.
5. Plan for power requirements.

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ENCLOSURE (6)

REFERENCE(S):

1. TM 08440a-12/2-2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.8 PLAN DSVT OPERATIONS

CONDITION(S): Provided concept of operations, commander's guidance, and references.

STANDARD: Ensure that Digital Subscriber Voice Terminal TSEC/KY-68 employment and operation supports the concept of operation.

PERFORMANCE STEPS:

1. Review the concept of operations.
2. Consolidate user requirements.
3. Plan major functions:
 - a. Power distribution.
 - b. Signalling.
 - c. Voice communications.
 - d. Data transfers.
 - e. Remote fill.
 - f. Local fill.
4. Plan employment mode:
5. Plan for physical security requirements.
6. Plan for COMSEC resources.
7. Plan for power requirements (AC or DC).

REFERENCE(S):

1. KAM-403/TSEC
2. TM 11-5810-329-10
3. TM 11-5810-329-23

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.1.9 PLAN ULCS OPERATIONS

CONDITION(S): Provided with the concept of operations, commander's guidance, and references.

STANDARD: Plan the employment of digital circuit switches to support the concept of operations.

PERFORMANCE STEPS:

1. Conduct site survey or map analysis.

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ENCLOSURE (6)

2. Analyze user requirements.
3. Identify AN/TTC-42 and SB-3865 quantities and personnel resources.
4. Identify types and quantities of mobile electric power generation or other required alternative power sources.
5. Develop the network traffic diagram.
6. Identify and assign a number to each node and link in the network.
7. Using a network diagram define both transmission and switching equipment to be assigned to the network.
8. Identify types and locations of all external network interfaces.
9. Define network COMSEC functions.
10. Define network timing functions.
11. Define switch affiliations for all switches that have a functional COMSEC relationship.
12. Define exit switch functions.
13. Define interface parameters for each digital switch in the network.
14. Define interoffice routing assignment parameters.
15. Define interarea routing parameters.
16. Define fixed directory instructions.
17. Define zone restrictions.
18. Define single line termination trunk groups and multiplexed trunk groups.
19. Assign analog single line terminations.
20. Establish distribution points.
21. Define cable types.
22. Complete Loop Assignment worksheet.

REFERENCE(S):

1. TM 08440A-12
2. TM 08339A-12
3. Staff Planners Tool, AN/TTC-42(V), SB-3865() (P)/TTC

ADMINISTRATIVE INSTRUCTIONS:

1. The Staff Planners Tool will accelerate and enhance mastery of the standard.

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2519.2.1 SUPERVISE INSTALLATION OF THE WIRE SYSTEM

CONDITION(S): Provided personnel, tools, equipment, a comm plan complete with a wire plan, unit SOP, commander's guidance and references.

STANDARD: Supervise the installation of a wire system which fulfills the wire plan per the commander's guidance and references.

PERFORMANCE STEPS:

1. Enforce all safety procedures.
2. Assign personnel.
3. Assign tasks.
4. Provide specific instructions to team leaders.
5. Supervise progress periodically to insure compliance with instructions.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-20
3. JCS PUB 29 VOL 2
4. FM 11-372-2/10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.2.2 DIRECT INSTALLATION OF FOCS

CONDITION(S): Provided a mission, Annex K, commander's guidance, and references.

STANDARD: Direct installation of the fiber system connectivity required between transmission and switching equipment to support the concept of operations per the commander's guidance and the reference.

PERFORMANCE STEPS:

1. Analyze or conduct a second site survey or map/terrain analysis.
2. Prioritize and reverify digital switch trunk group requirements and digital switching system and wideband transmission system node locations for the installation schedule.
 - a. AN/TTC-42
 - b. SB-3865
 - c. TD-1234 RMC
 - d. AN/TRC-170
 - e. AN/MRC-142
3. Inspect the fiber routes, splices, and repeaters as the installation effort progresses.
4. Fiber Optic Cable Assembly (FOCA) CX-13295/G
5. Converter Set AN/GSC-54

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6. Coordinate support for underground trenching and aerial installation as appropriate.
7. Modify the installation plan as required.

REFERENCE(S):

1. TM 11-6020-200-10
2. TC 24-20
3. Annex K

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.2.3 SUPERVISE STU-III INSTALLATION

CONDITION(S): Provided a requirement to provide replacement secure communications to AUTOSEVOCOM users and references.

STANDARD: Supervise the systematic upgrade and replacement of existing systems with STU-III equipment while providing for future expansion.

PERFORMANCE STEPS:

1. Revalidate user requirements and communities of interest.
2. Prioritize the allocation of equipment and installation schedule.
3. Supervise installation support as required.
4. Inspect installed equipment.
5. Supervise modification as required.

REFERENCE(S):

1. Annex K
2. Local SOP
3. MOTOROLA STU-III USERS GUIDE

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.2.4 SUPERVISE INSTALLATION OF DSVT EQUIPMENT

CONDITION(S): Provided Annex K, terminal equipment, commander's guidance, and references.

STANDARD: Ensure that the installation of Digital Subscriber Voice Terminals, TSEC/KY-68 supports the concept of operation.

PERFORMANCE STEPS:

1. Review Annex K.
2. Reconfirm user requirements.
3. Revalidate major functions:

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4. Assist in the installation effort based upon the employment mode:
5. Adhere to physical security requirements.
6. Reconfirm the availability and applicability of COMSEC resources.
7. Utilize power resources specified during the planning processes (AC or DC).
8. Reconfirm and obtain expendable supplies and materials.
9. Ensure that the installation team performs a post-installation checkout.

REFERENCE(S):

1. KAM-403/TSEC
2. TM 11-5810-329-10
3. TM 11-5810-329-23

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.2.5 SUPERVISE INSTALLATION ULCS EQUIPMENT

CONDITION(S): Provided with Annex K, commander's guidance, and references.

STANDARD: Direct the installation of digital circuit switches per Annex K.

PERFORMANCE STEPS:

1. Conduct a second site survey or map analysis.
2. Reconfirm user requirements.
3. Coordinate the availability of AN/TTC-42 and SB-3865 quantities and personnel resources.
4. Reevaluate types and quantities of mobile electric power generation or other required alternative power sources.
5. Modify the network traffic diagram as required.
6. Revalidate network COMSEC functions.
7. Reconfirm network timing functions.
8. Ensure the definition of switch affiliations for all switches that have a functional COMSEC relationship.
9. Revalidate the definition of exit switch functions.
10. Reconfirm interface parameters for each digital switch in the network.
11. Inspect installation upon completion.
12. Direct modification to the network as required.

REFERENCE(S):

1. Annex K
2. TM 08440A-12
3. TM 08339A-12

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4. Staff Planners Tool, AN/TTC-42(V), SB-3865() (P)/TTC

ADMINISTRATIVE INSTRUCTIONS:

1. The Staff Planners Tool will accelerate and enhance mastery of the standard.

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2519.3.1 SUPERVISE OPERATION OF WIRE/CABLE SYSTEM

CONDITION(S): Provided designated equipment, personnel, Annex K, cut sheets, unit SOP, and references.

STANDARD: Ensure wire/cable communication operations are conducted per the Annex K, cut sheets, unit SOP, and references.

PERFORMANCE STEPS:

1. Enforce safety precautions.
2. Assess wire/cable operational requirements.
3. Assign wire personnel.
4. Supervise equipment operation procedures.
5. Supervise COMSEC procedures.
6. Supervise Operation System Control.
7. Supervise TECHCONFAC.
8. Inspect wire/cable system for deterioration.
9. Supervise preventive maintenance procedures.

REFERENCE(S):

1. FM 24-20
2. FM 11-372-2/10
3. TM 9-2320-269-10
4. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.3.2 SUPERVISE COMMUNICATION SECURITY (COMSEC) FOR
A WIRE SECTION

CONDITION(S): Provided access to personnel, COMSEC equipment and software.

STANDARD: Ensure that COMSEC requirements are met strictly per the references.

PERFORMANCE STEPS:

1. Study the references.
2. Assess COMSEC requirements.

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3. Inspect for adherence to security requirements.
4. Correct discrepancies.
5. Enforce continued adherence to the procedures.

REFERENCE(S):

1. CSP-1
2. CMS-4
3. OPNAVINST 5510.1
4. FMFM 3-30
5. ACP-122
6. ACP-125

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2519.3.3 DIRECT OPERATION OF FOCS

CONDITION(S): Provided Annex K, cable worksheet, equipment, commander's guidance, and references.

STANDARD: Direct the operation of the Fiber Optic Cable System to ensure the connectivity required between transmission and switching equipment is maintained in order to support the concept of operations.

PERFORMANCE STEPS:

1. On a consistent basis, monitor and assess user digital switch trunk group requirements and digital switching system and wideband transmission system node locations.
 - a. AN/TTC-42
 - b. SB-3865
 - c. TD-1234 RMC
 - d. AN/TRC-170
 - e. AN/MRC-142
2. Ensure that personnel are adhering to correct equipment operation procedures for fiber and repeaters.
 - a. Fiber Optic Cable Assembly (FOCA)CX-13295/G
 - b. Converter Set AN/GSC-54
3. Maintain the distribution routes and right-of-way and make changes to underground trenching and aerial installation as appropriate.
4. Update cable worksheet, line route map, and as-built drawings as changes to system occur.

REFERENCE(S):

1. TM 11-6020-200-10
2. TC 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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TASK: 2519.3.4 DIRECT OPERATION ULCS EQUIPMENT

CONDITION(S): Provided with Annex K, commander's guidance, and references.

STANDARD: Direct the operation of digital circuit switches to support MAGTF operations.

PERFORMANCE STEPS:

1. Analyze and modify the system based upon changes to user requirements.
2. Monitor and identify trouble reports and configuration changes to AN/TTC-42 and SB-3865 switching systems.
3. Ensure proper operation and maintenance of mobile electric power generation or other alternative power sources.
4. Ensure the accuracy of the network traffic diagram.
5. Direct the management and control of the network by identifying changes or trouble reports on transmission and switching equipment assigned to the network.
6. Reconfigure interoffice routing assignment parameters as required.
7. Reassign analog single line terminations as required.
8. Update Loop Assignment worksheet.

REFERENCE(S):

1. TM 08440A-12
2. TM 08339A-12
3. Staff Planners Tool, AN/TTC-42(V), SB-3865() (P)/TTC

ADMINISTRATIVE INSTRUCTIONS:

1. The Staff Planners Tool will accelerate and enhance mastery of the standard.

TASK: 2519.3.5 SUPERVISE OPERATION DIGITAL BACKBONE
NETWORK

CONDITION(S): Provided Annex K, local Commsop, commander's guidance and references.

STANDARD: Supervise the operation of a digital backbone network in accordance with the reference.

PERFORMANCE STEPS:

1. Analyze user requirements as dictated by the tempo of operations.
2. Ensure periodic revalidation of types and quantities of terminal equipment and any special configuration requirements for each.
3. Reconfirm numbers, distances, and locations of nodes in the network.
4. Reconfigure as required, external network interfaces.
5. Supervise reconfiguration of network COMSEC functions as required.
6. Supervise execution of reconfiguration plan based on equipment outages.
7. Supervise corrective action to maintain cable routes for routes for external network requirements.

REFERENCE(S):

1. Annex K
2. TM 08440A-12
3. TM 08339A-12
4. JCS Pub 6-05, Vol III
5. Local COMSOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2519.4.1 SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES FOR WIRE/CONSTRUCTION SECTION

CONDITION(S): Provided communication supply and maintenance management files and records, and references.

STANDARD: Ensure compliance with maintenance management procedures and inspect maintenance/supply support coordination per the local SOP, Marine Corps doctrine, and the references.

PERFORMANCE STEPS:

1. Review orders and directives pertaining to MIMMS/SASSY.
2. Ensure maintenance is performed according to schedule and echelon.
3. Ensure maintenance records are kept current.
4. Ensure timely reconciliations of maintenance management.
5. Inspect and comply with maintenance management program.
6. Ensure personnel are properly trained for their duties.
7. Inspect records and forms for accuracy and completeness.
8. Inspect modification program.
9. Inspect tool control program.
10. Inspect publication control program.
11. Inspect turnover folders/desk top procedures.
12. Review MIMMS/SASSY reports.

REFERENCE(S):

1. MCO P4790.2
2. UM 4790-5
3. TM 4700-15/1
4. MCO P5600.31
5. MCBUL 3000 Series

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Appendix G to
ENCLOSURE (6)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

For a complete task list in this duty area for MOS 2519 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 5.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2519.6.1 SUPERVISE WIRE COMMUNICATION TRAINING PROGRAM

CONDITION(S): Provided MCO 1510.83 individual training standards for OCCFLD 25 and appropriate references.

STANDARD: Supervise the wire training in accordance with the individual training standards for OCCFLD 25.

PERFORMANCE STEPS:

1. Establish training priorities.
2. Devise training plan to increase skill level of personnel/unit.
3. Schedule participants and trainers.
4. Review lesson plans.
5. Supervise training.
6. Evaluate skill levels attained against desired levels.
7. Revise plan according to evaluation.

REFERENCE(S):

1. MCO P1200.7
2. FMFM 3-30
3. Applicable MCO'S in 1510 Series

ADMINISTRATIVE INSTRUCTIONS: (NONE)

MOS 2531, FIELD RADIO OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2531.2.1 INSTALL AN/PRC-77 RADIO SET

CONDITION(S): Provided AN/PRC-77, frequency, callsign, and batteries.

STANDARD: Install the AN/PRC-77 per the reference.

PERFORMANCE STEPS:

1. Install batteries.
2. Attach antenna.
3. Attach handset.
4. Set frequency, and volume controls.
5. Apply power.
6. Conduct operational check.

REFERENCE(S):

1. TM 11-5820-498-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.2 INSTALL AN/PSQ-4 POSITION LOCATING REPORTING SYSTEM (PLRS)

CONDITION(S): Provided AN/PSQ-4, key material, callsign, and batteries.

STANDARD: Install the AN/PSQ-4 per the reference.

PERFORMANCE STEPS:

1. Install batteries.
2. Attach antenna.
3. Attach basic user unit.
4. Load key material.
5. Apply power.
6. Conduct operational check.

REFERENCE(S):

1. TM 088484-10/2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.3 INSTALL PP-2953/U POWER SUPPLY

CONDITION(S): Provided PP-2953/U w/cables, designated equipment operating on 24v DC, and electrical tape.

STANDARD: Install PP-2953/U so that it is ready to supply 24v DC upon demand per the reference.

PERFORMANCE STEPS:

1. Ensure equipment is turned off.
2. Ground power supply.
3. Connect power supply to equipment.
4. Connect cables.
5. Apply power.
6. Conduct operational check.

REFERENCE(S):

1. TM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.4 INSTALL PP-6836/G POWER SUPPLY SET

CONDITION(S): Provided with a PP-6836/G w/cables, and designated equipment.

STANDARD: Install PP-6836/G so that it is ready to supply 24v DC upon demand per the reference.

PERFORMANCE STEPS:

1. Ground power supply.
2. Apply power.
3. Ensure correct cables are installed.
4. Ensure power supply is in off position.
5. Follow detailed instructions in the reference.

REFERENCE(S):

1. TM 07466A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.5 INSTALL PP-7333 POWER SUPPLY

CONDITION(S): Provided with a PP-7333 w/cables, and designated equipment.

STANDARD: Install PP-7333 so that it is ready to supply 24v DC upon demand per the reference.

PERFORMANCE STEPS:

1. Ground power supply.
2. Ensure correct cables are installed.
3. Ensure power supply is in off position.
4. Follow detailed instructions in the reference.

REFERENCE(S):

1. TM 08077A-14

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.6 INSTALL AN/UXC-7 TACTICAL FACSIMILE SET

CONDITION(S): Provided with a complete AN/UXC-7 power source, carbon paper, signal wire, crypto hardware and software, locally fabricated cables, and references.

STANDARD: Install AN/UXC-7 so that it is fully operational per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Connect signal cable to AN/UXC-7.
3. Connect encryption device to AN/UXC-7.
4. Ground equipment.
5. Connect power cable.
6. Apply power.
7. Perform self-test.
8. Set switches for on-line operation.

REFERENCE(S):

1. TM 08104A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.7 INSTALL AN/PRC-68A/KYV-2 RADIO SET

CONDITION(S): Provided AN/PRC-68A/KYV-2 with preset frequency, callsign, cryptographic hardware and software, and batteries.

Appendix H to
ENCLOSURE (6)

STANDARD: Install the AN/PRC-68/KYV-2 per the references.

PERFORMANCE STEPS:

1. Install battery.
2. Select and connect correct antenna.
3. Connect handset, if required.
4. Apply power.
5. Load cryptographic software.
6. Conduct operational check.

REFERENCE(S):

1. TM 06827A-10/1
2. TM 06827A-23/2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.8 INSTALL AN/GRA-39() RADIO SET CONTROL GROUP

CONDITION(S): Provided an AN/GRA-39() with batteries, WD-1/TT, designated radio equipment, and the reference.

STANDARD: Install the AN/GRA-39() per the reference.

PERFORMANCE STEPS:

1. Install batteries.
2. Locate local control unit next to radio.
3. Connect local control unit radio cable to receptacle of radio.
4. Locate remote control unit at desired site.
5. Connect handset to remote control unit.
6. Connect two units together with a wireline.
7. Apply power.
8. Conduct operational check.

REFERENCE(S):

1. TM 11-5820-477-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.9 INSTALL AN/GRC-160 RADIO SET

CONDITION(S): Provided AN/GRC-160, frequency, designated vehicle, appropriate installation kit, and the reference.

Appendix H to
ENCLOSURE (6)

STANDARD: Install the AN/GRC-160 per the reference.

PERFORMANCE STEPS:

1. Place AN/GRC-160 in Mount MT-1029.
2. Connect cables.
3. Apply power.
4. Conduct operational check.

REFERENCE(S):

1. TM 11-5820-498-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.10 INSTALL AN/PRC-104 RADIO SET

CONDITION(S): Provided AN/PRC-104, frequency, callsign, and batteries.

STANDARD: Install the AN/PRC-104 per the reference.

PERFORMANCE STEPS:

1. Install batteries.
2. Attach antenna to shock mount.
3. Attach shock mount to antenna socket.
4. Attach handset.
5. Set mode, antenna, frequency, and volume controls.
6. Apply power.
7. Tune the radio.
8. Conduct operational check.

REFERENCE(S):

1. TM 07748A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.11 INSTALL AN/MRC-138 RADIO SET

CONDITION(S): Provided AN/MRC-138, frequency, designated site, hazardous warning signs, and the reference.

STANDARD: Install AN/MRC-138 per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Ground the radio set.

3. Connect cables.
4. Install AT-1011.
5. Connect handset.
6. Apply power.
7. Set frequency.
8. Conduct operational check.

REFERENCE(S):

1. TM 07749A/07743A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.12 INSTALL AN/MRC-110A RADIO SET

CONDITION(S): Provided AN/MRC-110A, frequency, designated site, and the reference.

STANDARD: Install AN/MRC-110A per the reference.

PERFORMANCE STEPS:

1. Make sure the pins on the back of the radio are straight.
2. Lift the radio onto the mount and carefully push it straight back to seat the radio pins into the mount receptacle.
3. Check the dial light. If no light, return to number 1 and start again.
4. Tighten the mount clamps to lock the radio on the mount. If necessary, install safety wires to keep clamps from loosening.
5. Connect cable assemblies to the radio.
6. Erect AS-1729 antennae.
7. Ensure the radio is grounded.
8. Apply power.
9. Set frequency.
10. Allow 1 minute warmup time.
11. Set for low power operation.
12. Conduct operational check.

REFERENCE(S):

1. TM 11-5820-401-10-2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.13 INSTALL AN/PRC-113 RADIO SET

CONDITION(S): Provided an AN/PRC-113, batteries, frequency, and callsign.

STANDARD: Install the AN/PRC-113 per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Attach appropriate antenna.
3. Apply power.
4. Manually select frequency.
5. Load preset channels.
6. Select a preset channel.
7. Select low power.
8. Conduct operational check.

REFERENCE(S):

1. TM 31R2-2PRC113-1-1
2. DB 1-86

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.14 INSTALL AN/VRC-83 RADIO SET

CONDITION(S): Provided AN/VRC-83, designated vehicle, and the reference.

STANDARD: Install AN/VRC-83 per the reference.

PERFORMANCE STEPS:

1. Put the radio amplifier on the mount and fix into position.
2. Ensure the radio amplifier is switched off then connect the vehicle power supply to the back of the radio amplifier.
3. Mount the R/T on to the radio amplifier and fix into position.
4. Connect the RF cable from the ANT socket on the R/T to the RF IN on the radio amplifier.
5. Connect the antenna to the ANT socket on the radio amplifier.
6. Connect handset (H-250/U) to the R/T.
7. Ensure the radio is grounded.
8. Conduct operational checks.

REFERENCE(S):

1. TM 31R2-2VRC83-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Appendix H to
ENCLOSURE (6)

TASK: 2531.2.15 INSTALL AN/PSC-2 DIGITAL COMMUNICATIONS
TERMINAL

CONDITION(S): Provided AN/PSC-2, AN/PRC-77, batteries, and the
reference.

STANDARD: Install AN/PSC-2 per the reference.

PERFORMANCE STEPS:

1. Install power source.
2. Apply power.
3. Load application program.
4. Connect cables to equipment.
5. Run application program.

REFERENCE(S):

1. TM 08487A-12 & P/1
2. DB 1-88
3. TM 08487A-34 & P/7

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.16 INSTALL AN/PSC-3 MANPACK SATELLITE
TERMINAL

CONDITION(S): Provided an AN/PSC-3, batteries, frequencies,
and callsign, cryptographic hardware and software, a compass,
satellite location, and the reference.

STANDARD: Install the AN/PSC-3 per the reference.

PERFORMANCE STEPS:

1. Install for line-of-sight (LOS) operation.
2. Install for satellite operation.

REFERENCE(S):

1. TM 11-5895-1130-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.17 INSTALL VEHICLE MOUNTED SINCGARS RADIO

CONDITION(S): Provided vehicle, SINCGARS radio, fill
(contained in fill device), frequency, installation kit, and
the reference.

STANDARD: Install SINCGARS radio per the reference.

Appendix H to
ENCLOSURE (6)

PERFORMANCE STEPS:

1. Place the radio into the mount.
2. Connect cable.
3. Install antenna.
4. Apply power.
5. Load variable or enter frequency, as applicable.
6. Conduct operational check.
7. If the radio setup includes two radios, repeat steps 1-6 for the second radio.

REFERENCE(S):

1. TM 11-5820-890-10-1

ADMINISTRATIVE INSTRUCTIONS:

1. This task applies to the following SINCGARS radios:
 - a. AN/VRC-88A
 - b. AN/VRC-89A
 - c. AN/VRC-90A
 - d. AN/VRC-91A
 - e. AN/VRC-92A

TASK: 2531.2.18 INSTALL AN/PRC-119A SINCGARS RADIO

CONDITION(S): Provided AN/PRC-119A, fill (contained in a fill device), frequency, callsign, batteries, and reference.

STANDARD: Install the AN/PRC-119 per the reference.

PERFORMANCE STEPS:

1. Install the battery.
2. Install hold up battery (HUB).
3. Secure the battery case.
4. Install antenna.
5. Connect handset.
6. Apply power.
7. Select proper position for all switches.
8. Load variable or enter frequency, as applicable.
9. Conduct operational check.

REFERENCE(S):

1. TM 11-5820-890-10-1

Appendix H to
ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.19 INSTALL AN/MRC-140

CONDITION(S): Provided AN/MRC-140, frequencies, callsign, designated site and references.

STANDARD: Install the AN/MRC-140 per the references.

PERFORMANCE STEPS:

1. Install the AN/VSC-7 into the mount.
2. Install for line of sight (LOS) operation.
3. Install for satellite operation.
4. Conduct operational check.

REFERENCE(S):

1. TM 09120A-14/1
2. TM 5895-10/2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.20 INSTALL MX-9331B/URC REGENERATIVE REPEATER

CONDITION(S): Provided MX-9331B/URC, appropriate power source, cryptographic hardware and software, and references.

STANDARD: Install the MX-9331B/URC per the references.

PERFORMANCE STEPS:

1. Site the equipment.
2. Connect power.
3. Connect cables.
4. Apply power.
5. Load cryptographic software.
6. Conduct operational check.
7. Provide security.

REFERENCE(S):

1. TM 08848A-14/1
2. TM 11-5810-292-12
3. TM 11-5810-256-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.21 INSTALL TSEC/KY-57 COMMUNICATION SECURITY EQUIPMENT

CONDITION(S): Provided a TSEC/KY-57 with batteries, cryptographic hardware and software, designated radio equipment, and the references.

STANDARD: Install TSEC/KY-57 per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Connect TSEC/KY-57 to designated radio equipment.
3. Apply power.
4. Load cryptographic software.
5. Conduct operational check.
6. Provide security.

REFERENCE(S):

1. TM 11-5810-292-12
2. TM 11-5810-256-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.22 INSTALL TSEC/KY-65 COMMUNICATION SECURITY SYSTEM, PARKHILL

CONDITION(S): Provided TSEC/KY-65 with batteries, cryptographic hardware and software, designated radio equipment, and references.

STANDARD: Install TSEC/KY-65 per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Connect TSEC/KY-65 to designated radio equipment.
3. Apply power.
4. Load cryptographic software.
5. Conduct operational check.
6. Provide security.

REFERENCE(S):

1. TM 11-5810-280-12 & P

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.23 INSTALL TSEC/HYX-57 WIRELINE ADAPTER

CONDITION(S): Provided TSEC/HYX-57 with batteries, cryptographic hardware and software, WD-I/TT or WF-16 wire, and references.

STANDARD: Install TSEC/HYX-57 per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Connect cryptographic hardware.
3. Apply power.
4. Conduct operational check.
5. Provide security.

REFERENCE(S):

1. TM 11-5810-292-OP-7
2. TM 11-5810-292-12
3. TM 11-5810-256-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.2.24 ERECT RC-292 ANTENNA

CONDITION(S): Provided RC-292, designated site, and the reference.

STANDARD: Erect RC-292 per the reference.

PERFORMANCE STEPS:

1. Wear protective headgear and eye protection.
2. Select your site.
3. Raise mast with two men.
4. Adjust and tighten all guy ropes.

REFERENCE(S):

1. TM 11-5820-348-15

ADMINISTRATIVE INSTRUCTIONS: Ensure selected site is clear of obstructions such as power lines. If there are power lines near the site the antenna must not be any closer than twice the height of the antenna.

TASK: 2531.2.25 ERECT AS-2259/GR HF TACTICAL ANTENNA

CONDITION(S): Provided AS-2259/GR, designated site, and the reference.

STANDARD: Erect AS-2259/GR per the reference.

Appendix H to
ENCLOSURE (6)

PERFORMANCE STEPS:

1. Select site.
2. Install the AB-1241 and connect to the radio set.
3. Assemble mast.

REFERENCE(S):

1. TM 07508A-14

ADMINISTRATIVE INSTRUCTIONS:

1. VEHICULAR INSTALLATION: The AS-2259/GR can be fitted to the MRC-138 by using the Adapter MX-9313/GR on the vehicle whip mount. When using this method leave off two sections to keep the top of the antenna at the correct height.
2. The antenna should be located in the center of a clear area. Installation of the antenna near any tall metal object or under heavy foliage should be avoided. Under no circumstances should structures come in contact with the antenna.

TASK: 2531.2.26 CONSTRUCT LONG WIRE ANTENNA

CONDITION(S): Provided AB-()/GRC antenna mast kit, nylon rope, coaxial cable, 10 gauge wire, resistors, balun antenna, assigned type of antenna, and references.

STANDARD: Construct assigned long wire antenna to meet specifications using construction guidelines contained in the references.

PERFORMANCE STEPS:

1. Determine length of antenna.
2. Determine correct azimuth.
3. Select site large enough to accommodate antenna.
4. Construct the antenna.
5. Adhere to safety procedures.
6. Erect the antenna.

REFERENCE(S):

1. FM 24-18
2. Field Antenna Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. This task applies to the following antennae:
 - a. Terminated/nonterminated long wire.
 - b. Vertical half rhombic.
 - c. Beverage.
 - d. Dipole.
 - e. Inverted L.

Appendix H to
ENCLOSURE (6)

- f. Horizontal V.
- g. Sloping V.
- h. Ground plane

TASK: 2531.2.27 CONSTRUCT FIELD EXPEDIENT ANTENNA

CONDITION(S): Provided locally available materials, designated type of antenna, assigned radio, and lost or broken antenna.

STANDARD: Construct an expedient antenna which will restore radio communication caused by lost or broken antenna using construction guidelines in the references.

PERFORMANCE STEPS:

1. Determine length of antenna.
2. Gather required materials.
3. Adhere to safety procedures.
4. Construct the antenna.
5. Restore radio communication.

REFERENCE(S):

1. FM 24-18
2. Field Antenna Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. This task applies to constructing field expedients for the following antennae:
 - a. VHF ground plane.
 - b. Vertical whip.
 - c. Yagi.

TASK: 2531.2.28 DIRECT INSTALLATION OF FIELD EXPEDIENT ANTENNA

CONDITION(S): Provided single channel radio plan, necessary radio equipment and personnel.

STANDARD: Direct installation of a single channel radio plan in accordance with the references.

PERFORMANCE STEPS:

1. Determine equipment requirements.
2. Assign personnel tasks.
3. Direct installation of antenna hill.
4. Direct installation of radio remotes in Combat Operation Center.

REFERENCE(S):

1. FM 3-30
2. Annex K

ADMINISTRATIVE INSTRUCTIONS:

1. This task applies to constructing field expedients for the following antennae:
 - a. VHF ground plane.
 - b. Vertical whip.
 - c. Yagi.
-

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2531.3.1 PERFORM PREVENTIVE ECCM TECHNIQUES

CONDITION(S): Provided Annex K, commander's guidance, and references.

STANDARD: Perform preventive ECCM techniques to reduce vulnerability to enemy EW per the commander's guidance and the references.

PERFORMANCE STEPS:

1. Minimize transmissions.
2. Protect transmissions from enemy interception.
3. Select the antenna with the shortest range capability that is feasible.
4. Use directional antennas.
5. Use correct radio telephone procedures.

REFERENCE(S):

1. FM 24-33
2. FMFM 3-30
3. FM 24-18

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.2 DIRECT REMEDIAL ECCM PROCEDURES

CONDITION(S): Provided communications personnel and equipment, a tactical situation, a communication system, and enemy EW activity.

STANDARD: Direct remedial ECCM procedures to reduce effect of enemy EW, restore circuit performance, and deny the enemy knowledge of the effectiveness of the EW activity per the references.

PERFORMANCE STEPS:

1. Recognize jamming/interference.

2. Report jamming/interference incidents.
3. Overcome jamming/interference.
4. Use an alternate means of communications.

REFERENCE(S):

1. FM 24-33
2. FMFM 3-30
3. FM 24-18

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.3 PERFORM TROUBLESHOOTING PROCEDURES ON A FAULTY RADIO

CONDITION(S): Provided a radio which fails to operate.

STANDARD: Determine whether the problem can be corrected locally or technical support must be requested.

PERFORMANCE STEPS:

1. Check the power source (battery or AC).
2. Check the frequency.
3. Check all switches for correct setting.
4. Check key setting (if operating secure).
5. Check all wire/cable connections.
6. Check antenna connection.
7. Inform supervisor of unresolved problem.

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.4 OPERATE AN/GRC-160 RADIO SET

CONDITION(S): Provided an AN/GRC-160, an assigned station on a radio net, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

Appendix H to
ENCLOSURE (6)

REFERENCE(S):

1. TM 11-5820-498-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.5 OPERATE AN/PRC-77 RADIO SET

CONDITION(S): Provided an AN/PRC-77, an assigned station on a radio net, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 11-5820-498-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.6 OPERATE AN/PSQ-4 PLRS

CONDITION(S): Provided an AN/PSQ-4, and assigned station on the net, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 08848A-10/2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.7 OPERATE AN/MRC-138 RADIO SET

CONDITION(S): Provided an AN/MRC-138, an assigned station, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Ensure radio is grounded.
2. Conduct operational check.
3. Establish communication on the net.
4. Troubleshoot problems.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 07749A/07743A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.8 OPERATE AN/MRC-110A RADIO SET

CONDITION(S): Provided an AN/MRC-110A, an assigned station, frequency, call sign, and reference.

STANDARD: Maintain reliable communication to include providing retransmission capabilities to other stations on the net per the reference.

PERFORMANCE STEPS:

1. Ensure radio is grounded.
2. Conduct operational check.
3. Establish communication on the net.
4. Conduct retransmission of a circuit.
5. Troubleshoot problems.
6. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 11-5820-401-10-2

TASK: 2531.3.9 OPERATE AN/PRC-68A/KYV-2 RADIO SET

CONDITION(S): Provided an AN/PRC-68A/KYV-2, an assigned station on a VHF radio net, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.

3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 06827B-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.10 OPERATE AN/PRC-104 RADIO SET

CONDITION(S): Provided an AN/PRC-104, an assigned station, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Ensure radio is grounded.
2. Conduct operational check.
3. Establish communication on the net.
4. Troubleshoot problems.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 07748A-12/1

ADMINISTRATIVE INSTRUCTIONS:

1. Contact the local frequency manager to get authorization to use the test frequencies, or to get specific information on alternate frequencies that may be used.
-

TASK: 2531.3.11 OPERATE AN/PRC-113 RADIO SET

CONDITION(S): Provided an AN/PRC-113, an assigned station, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 31R2-2PRC113-1-1

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.12 OPERATE AN/VRC-83 RADIO SET

CONDITION(S): Provided an AN/VRC-83, an assigned station on a UHF radio net, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 31R2-2VRC83-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.13 OPERATE AN/PSC-2 DIGITAL COMMUNICATION
TERMINAL

CONDITION(S): Provided an AN/PSC-2 connected to designated radio equipment, an assigned station on a radio net, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net via the AN/PSC-2 per the reference.

PERFORMANCE STEPS:

1. Install battery or connect power supply.
2. Load appropriate application program.
3. Connect accessory or communication equipment as required.
4. Perform message functions.
5. Perform map functions.
6. Set communications parameters.
7. Transmit message/map.
8. Receive message/map.
9. Run self test.
10. Purge current applications program.
11. Perform purge functions.
12. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 08487A-12 & P/1

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2. DB 1-88

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.14 OPERATE AN/PSC-3 MANPACK SATELLITE TERMINAL

CONDITION(S): Provided an AN/PSC-3, frequencies, callsigns, an assigned station on a net, and the reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Operate in line-of-sight (LOS) mode:
 - a. Set function, mode, and call switches for LOS operation.
 - b. Adjust to assigned frequency.
 - c. Transmit and receive messages.
2. Operate in satellite mode:
 - a. Set function, mode, and call switches for satellite operation.
 - b. Adjust frequency controls to assigned frequencies.
3. Conduct operational checks.
4. Establish communication on the net.
5. Troubleshoot problems.
6. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 11-5895-1130-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.15 OPERATE VEHICLE MOUNTED SINGARS RADIO

CONDITION(S): Provided an installed SINGARS radio, an assigned station on a VHF radio net, callsign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 5820-498-12

ADMINISTRATIVE INSTRUCTIONS:

1. This task applies to the following SINCGARS radios:
 - a. AN/VRC-88A
 - b. AN/VRC-89A
 - c. AN/VRC-90A
 - d. AN/VRC-91A
 - e. AN/VRC-92A
-

TASK: 2531.3.16 OPERATE AN/PRC-119

CONDITION(S): Provided an installed AN/PRC-119A, an assigned station on a radio net, callsign, and reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 5820-498-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.17 OPERATE AN/MRC-140

CONDITION(S): Provided an AN/MRC-140, frequencies, callsigns, an assigned station on a net, and the reference.

STANDARD: Maintain reliable communication with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Operate in line-of-sight (LOS) mode:
 - a. Set function, mode, and call switches for LOS operation.
 - b. Adjust to assigned frequency.
 - c. Transmit and receive messages.
2. Operate in satellite mode:
 - a. Set function, mode, and call switches for satellite operation.

- b. Adjust frequency controls to assigned frequencies.
3. Conduct operational checks.
4. Establish communication on the net.
5. Troubleshoot problems.
6. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 09120A-14/1
2. TM 5895-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.18 OPERATE MX-9331B/URC REGENERATIVE REPEATER

CONDITION(S): Provided an MX-9331B/URC, frequencies, call signs, and references.

STANDARD: Maintain reliable retransmission communication for the other stations on the net per the references.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish retransmission communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 08848A-14/1
2. TM 11-5810-292-12
3. TM 11-5820-401-10-2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.19 OPERATE AN/PPN-19 RADAR BEACON

CONDITION(S): Provided an AN/PPN-19, a mission, and reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Troubleshoot problems.
3. Perform operator level preventive maintenance.

REFERENCE(S):

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.20 OPERATE TSEC/KY-57 COMMUNICATION SECURITY EQUIPMENT

CONDITION(S): Provided a TSEC/KY-57 connected to designated communication equipment, an assigned station on a radio net, frequency, call sign, and references.

STANDARD: Maintain reliable communication with other stations on the net via the TSEC/KY-57 per the references.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Perform Saville Advanced Remote Keying operations, as required.
4. Troubleshoot problems.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 11-5810-292-12
2. TM 11-5810-256-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.21 OPERATE TSEC/KY-65 COMMUNICATION SECURITY EQUIPMENT

CONDITION(S): Provided a TSEC/KY-65 connected to designated communication equipment, an assigned station on a radio net, frequency, call sign, and reference.

STANDARD: Maintain reliable communication with other stations on the net via the TSEC/KY-65 per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 11-5810-280-12 & P

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.22 OPERATE TSEC/KYX-15A NET CONTROL DEVICE

CONDITION(S): Provided a TSEC/KYX-15A connected to designated communication equipment, an assigned station on a radio net, frequency, call sign, and references.

STANDARD: Send keymat material to other stations on the net via the TSEC/KYX-15A per the references.

PERFORMANCE STEPS:

1. Perform VG operation.
2. Perform AK operation.
3. Perform MK net controller to subscriber operation.
4. Perform MK net controller to alternate net controller operation.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 11-5810-292-12
2. KAG-46A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.23 OPERATE AN/UXC-7 TACTICAL FACSIMILE SET

CONDITION(S): Provided a fully operational on-line AN/UXC-7 and references.

STANDARD: Operate the AN/UXC-7 per the reference.

PERFORMANCE STEPS:

1. Send and receive traffic.
2. Troubleshoot as required.
3. Complete cryptographic software changeover as required.
4. Reinitialize as required.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 08104A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.24 EMPLOY VOICE RADIO TELEPHONE PROCEDURES

CONDITION(S): Provided an assigned station on a radio net, designated radio equipment, frequency, call sign, and the reference.

STANDARD: Employ voice radio telephone procedures per the reference.

PERFORMANCE STEPS:

1. Use prowords.
2. Keep transmissions as short as possible.
3. Use radio circuit logs.
4. Employ preventive ECCM techniques.
 - a. Minimize transmissions.
 - b. Protect transmissions from enemy interception.
 - c. Employ radio telephone operating procedures.

REFERENCE(S):

1. ACP-125

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.25 CONDUCT AUTOMATIC RETRANSMISSION USING MK-456

CONDITION(S): Provided MK-456, radio equipment, designated site, callsigns, and frequencies.

STANDARD: Establish an automatic retransmission site per the reference.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory of all equipment.
2. Connect two AN/PRC-77's.
3. Connect two RT-524's.
4. Connect an AN/PRC-77 to an RT-524.

REFERENCE(S):

1. TM 11-5820-667-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.26 MAINTAIN CIRCUIT LOGS

CONDITION(S): Provided an assigned station on a radio net, blank circuit logs, and local SOP.

STANDARD: The circuit log show a complete and continuous record of all transmitted and received traffic and operating which occur during the day, including time of opening and closing of the station(s), causes of delays on the circuit, frequency adjustments and changes, and unusual occurrences such as procedure and security violations.

PERFORMANCE STEPS:

1. Print full name and grade upon opening a new circuit log, starting a new days log, or upon assuming the watch.

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2. Time permitting, record all transmissions heard regardless of source or completeness.
3. During busy periods, make entries at frequent intervals to maintain receive of circuit status.
4. When receiving or relaying a message, enter only the message heading up to the first break (BT) in the log. Record entire message on a message blank.
5. Make changes by drawing a single line through the original entry and initialing the change. DO NOT ERASE!
6. Sign the log upon relief of the watch or upon closing the circuit.

REFERENCE(S):

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2531.3.27 DIRECT OPERATION OF SINGLE CHANNEL RADIO PLAN

CONDITION(S): Provided single radio plan, radio equipment, and personnel.

STANDARD: Direct operation of single channel radio plan in accordance with the references.

PERFORMANCE STEPS:

1. Direct radio operations within the Combat Operations Center.
2. Direct operation of antenna hill.
3. Direct troubleshooting procedures.

REFERENCE(S):

1. Annex K

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2531.4.1 PERFORM PREVENTIVE MAINTENANCE ON PORTABLE RADIO EQUIPMENT

CONDITION(S): Provided designated equipment, cleaning materials, and the references.

STANDARD: Portable radio equipment must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Conduct operational check.
4. Update equipment records.
5. Report discrepancies.

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REFERENCE(S):

1. MCO P4790.2
2. MCO P3000.11
3. MCBUL 3000 Series
4. TM 4700-15/1
5. TM 06827B-10/1
6. TM 11-5820-667-12
7. TM 07748A-12/1

ADMINISTRATIVE INSTRUCTIONS:

1. (NONE)

TASK: 2531.4.2 PERFORM PREVENTIVE MAINTENANCE ON MOBILE RADIO EQUIPMENT

CONDITION(S): Provided designated equipment, cleaning materials, and the references.

STANDARD: Mobile radio equipment must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Conduct operational check.
4. Update equipment records.
5. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. MCO P3000.11
3. MCBUL 3000 Series
4. TM 4700-15/1
5. TM 9-2320-280-10
6. TM 07749A/07743A-12/1
7. TM 11-5820-498-12
8. TM 31R2-2VRC83-1
9. TM 11-5820-401-10-2

ADMINISTRATIVE INSTRUCTIONS:

1. These are representative steps. Specific equipment TM's will contain additional details.

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TASK: 2531.4.3 PERFORM PREVENTIVE MAINTENANCE ON ANTENNASAS

CONDITION(S): Provided designated equipment, cleaning materials, and the references.

STANDARD: Antennas must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Conduct operational check.
4. Update equipment records.
5. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. TM 11-5820-348-15
4. TM 07508A-14

ADMINISTRATIVE INSTRUCTIONS:

1. These are representative steps. Specific equipment TM's will contain additional details.

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

For a complete task list in this duty area for MOS 2531 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 5.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

For a complete task list in this duty area for MOS 2531 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 6.

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MOS 2532, MULTICHANNEL EQUIPMENT OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2532 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2532 tasks, include all of the tasks for MOS 2531.

TASK: 2532.1.1 PLAN EMPLOYMENT OF THE AN/MRC-142 RADIO SET

CONDITION(S): Provided 4/3 Earth Radius Graph Form, horizon angle data sheet, team assignment form, performance work sheet, frequency plan, channelization plan, equipment utilization plan, topographic map sheets showing tentative and alternate sites, site characteristics vs. propagation made checklist, site consideration information, and references.

STANDARD: Plan the AN/MRC-142 shot that will provide optimum service per the references.

PERFORMANCE STEPS:

1. Conduct site survey.
2. Plot grid coordinates.
3. Determine azimuths/back azimuths
4. Determine path altitude and distance.
5. Draw profile graph using 4/3 earth radius graph.
6. Determine optimum mode of propagation.
7. Draft plan.
8. Submit plan for review.

REFERENCE(S):

1. TM 04041A-30/3
2. TM 08044A-12/1
3. TM 08044A-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.1.2 PLAN TEAM ASSIGNMENT FOR AN/MRC-142 RADIO SET

CONDITION(S): Provided a team assignment form, topographic map, a completed 4/3 Earth Radius Profile Graph, performance work sheet, frequency plan, channelization plan, equipment utilization plan, and references.

STANDARD: Complete team assignment form per the references.

PERFORMANCE STEPS:

1. Obtain data.
2. Complete team assignment form.
3. Submit team assignment.

REFERENCE(S):

1. TM 08044A-12/1
2. TM 04041A-30/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2532.2.1 ERECT AS-2236/GRC ANTENNA

CONDITION(S): Provided AS-2236/GRC, designated site, and the reference.

STANDARD: Erect AS-2236/GRC per the reference.

PERFORMANCE STEPS:

1. Erect tripod and tripod leg brace.
2. Install polarizer assembly.
3. Install antenna assembly and RF cable assembly.
4. Set azimuth.
5. Change antenna polarization as required.

REFERENCE(S):

1. TM 06728A-15

ADMINISTRATIVE INSTRUCTIONS:

1. The designated site should be a reasonably clear area with relatively flat and firm ground. A minimum clearance diameter of 15 feet at the top is required for freedom of operation when rotating the antenna.
-

TASK: 2532.2.2 INSTALL AN/MRC-135B TERMINAL SET

CONDITION(S): Provided AN/MRC-135B, frequencies, antennae, designated site, and the reference.

STANDARD: Install AN/MRC-135B in accordance with the reference.

PERFORMANCE STEPS:

1. Ground the system.
2. Site the equipment.
3. Ground the system.
4. Erect antennae.
5. Apply power.
6. Interconnect data lines.

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7. Connect cryptographic equipment.
8. Establish orderwire communication with distant station.
9. Conduct channel check.

REFERENCE(S):

1. TM 07272A/07273A-12A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.2.3 INSTALL AN/MRC-142

CONDITION(S): Provided AN/MRC-142, frequency, designated site, and the reference.

STANDARD: Install the AN/MRC-142 per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Ground the system.
3. Install MRC-142
4. Apply power.
5. Establish communication.

REFERENCE(S):

1. TM AN/MRC-142(XN-1)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.2.4 ERECT OE-52A ANTENNA SET

CONDITION(S): Provided OE-52A Antenna set, V-419 (M101) trailer, and reference.

STANDARD: Erect OE-52A Antenna set for use with the AN.GRC 201 in accordance with the reference.

PERFORMANCE STEPS:

1. Obtain azimuths and elevation settings.
2. Assemble antenna set.
3. Set azimuth and elevation on antenna.
4. Connect waveguide to AN/GRC -201.

REFERENCE(S):

1. TM 08044A-12/1A

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ADMINISTRATIVE INSTRUCTIONS:

1. The designated site should be a reasonably clear area with relatively flat and firm ground. A minimum clearance diameter of 15 feet at the top is required for freedom of operation when rotating the antenna.
-

TASK: 2532.2.5 ERECT OE-468 MICROWAVE ANTENNA GROUP

CONDITION(S): Provided OE-468 Antenna Set, M116A2 trailer, horizon angle, azimuth, and reference.

STANDARD: Erect OE-468 Antenna Set per the reference.

PERFORMANCE STEPS:

1. Adhere to all safety procedures.
2. Obtain azimuths and elevation settings.
3. Assemble antenna set.
4. Set azimuth and elevation on antenna.
5. Connect waveguide to AN/GRC -201.

REFERENCE(S):

1. TM 09280A-14
2. TM 09280A-P/1

ADMINISTRATIVE INSTRUCTIONS:

1. The designated site should be a reasonably clear area with relatively flat and firm ground. A minimum clearance diameter of 15 feet at the top is required for freedom of operation when rotating the antenna.
-

TASK: 2532.2.6 DETERMINE OPTIMUM MODE OF PROPAGATION FOR THE AN/MRC-142 RADIO SET

CONDITION(S): Provided with a completed 4/3 Earth Radius Profile Graph, a topographic map, horizon angle data sheet, shot information, and the reference.

STANDARD: Determine optimum mode of propagation per the reference.

PERFORMANCE STEPS:

1. Analyze available data.
2. Complete site characteristics vs. propagation mode checklist.
3. Determine optimum mode of propagation.

REFERENCE(S):

1. TM 04041A-30/3
2. TM 0844A-10
3. TM 08044-10 Supplement 1

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.2.7 CONNECT TSEC/KG-27 COMMUNICATION SECURITY
DEVICE TO THE TELEPHONE TERMINAL

CONDITION(S): Provided TSEC/KG-27, connecting cables,
AN/TCC-72 telephone terminal set, cryptographic software and
keying materials, and references.

STANDARD: Install the TSEC/KG-27 to include loading the
software to complete a covered circuit per the references.

PERFORMANCE STEPS:

1. Emplace the TSEC/KG-27.
2. Connect cables.
3. Set keying cards.
4. Load keying materials.
5. Conduct operational check.

REFERENCE(S):

1. TM 11-5805-479-14-2
2. TM 11-5810-232-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.2.8 DRAW PROFILE GRAPH USING 4/3 EARTH'S RADIUS
PROFILE PAPER

CONDITION(S): Provided a 4/3 Earth Radius Graph Form,
topographic map of the area, site locations, and the
reference.

STANDARD: Complete 4/3 Earth Radius Graph per the reference.

PERFORMANCE STEPS:

1. Plot site locations.
2. Determine elevation of both sites.
3. Determine elevation and distance of all contour lines
crossing path line.
4. Plot path on profile graph.
5. Complete horizon angle data sheet.
6. Complete reliability sheet.

REFERENCE(S):

1. TM 04041A-30/3
2. TM 08044A-10/Supplement 1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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TASK: 2532.2.9 INSTALL AN/GRC-201 RADIO SET

CONDITION(S): Provided AN/GRC-201 radio system, site location, power source, team assignment form, and references.

STANDARD: Install AN.GRC-201 per the references.

PERFORMANCE STEPS:

1. Site the equipment.
2. Erect the antenna.
3. Ground the equipment.
4. Install equipment.
5. Connect power source.
6. Apply power.
7. Conduct operational check.

REFERENCE(S):

1. TM 04041A-30/3
2. TM 08044A-10/Supplement 1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2532 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2532 tasks, include all of the tasks for MOS 2531.

TASK: 2532.3.1 OPERATE AN/MRC-135B RADIO SET

CONDITION(S): Provided an installed AN/MRC-135B, an assigned station on a VHF multichannel radio link, frequencies, call sign, and reference.

STANDARD: Maintain reliable communication with other station on the link per the reference.

PERFORMANCE STEPS:

1. Conduct operational check.
2. Establish communication on the net.
3. Troubleshoot problems.
4. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 07272A/07273A-12A

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.3.2 OPERATE AN/MRC-142

CONDITION(S): Provided an installed AN/MRC-142, an assigned station on a UHF radio net, frequencies, callsign, and reference.

STANDARD: Maintain reliable communications with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Ensure radio is grounded.
2. Enter setup mode (from normal mode).
3. Enter orderwire only mode.
4. Verify system parameters.
5. Establish communication on the net.
6. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM AN/MRC-142(XN-1)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.3.3 ENERGIZE AN/GRC-201 RADIO SYSTEM

CONDITION(S): Provided an installed AN/GRC-201, an assigned station on a UHF radio net, frequencies, callsign, and reference.

STANDARD: Maintain reliable communications with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Conduct antenna search operations.
2. Adjust power output.
3. Energize AN/GRC-201.
4. Configure video patch panel.
5. Perform system loopback.
6. Connect subscriber lines.

REFERENCE(S):

1. TM 11-5805-479-2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.3.4 PERFORM AUDIO GAIN ADJUSTMENT ON AN/TCC-72
TELEPHONE TERMINAL

CONDITION(S): Provided an installed AN/TCC-72 and reference.

STANDARD: Perform audio gain adjustment in accordance with the
reference.

PERFORMANCE STEPS:

1. Establish orderwire communication.
2. Coordinate sending measure tones channel by channel.
3. Align each channel by the measure tone.
4. Perform voice alignment, if required.

REFERENCE(S):

1. TM 11-5805-479-2
2. TM 08044A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.3.5 OPERATE TSEC/KG-27 COMMUNICATIONS SECURITY
DEVICE WITH AN/TCC-72 TELEPHONE TERMINAL

CONDITION(S): Provided an installed AN/GRC-201, TSEC/KG-27 and
reference.

STANDARD: Operate TSEC/KG-27 per the reference.

PERFORMANCE STEPS:

1. Apply power.
2. Check switch settings.

REFERENCE(S):

1. TM 11-5805-479-2
2. TM 5810 -232-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2532.3.6 OPERATE TSEC/KG-94A COMMUNICATIONS SECURITY
DEVICE WITH AN/TCC-72 TELEPHONE TERMINAL

CONDITION(S): Provided an installed AN/GRC-201, TSEC/KG-94A,
and reference.

STANDARD: Operate TSEC/KG-94A per the reference.

PERFORMANCE STEPS:

1. Connect TSEC/KG-94A to designated equipment.
2. Apply power.
3. Conduct operational check.
4. Perform updates as required.

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REFERENCE(S):

1. TM 11-5805-479-14-2
2. TM 5810-232-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2532 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2532 tasks, include all of the tasks for MOS 2531.

TASK: 2532.4.1 PERFORM PREVENTIVE MAINTENANCE (PM) ON
MULTICHANNEL RADIO SET

CONDITION(S): Provided with a multichannel radio set, cleaning materials, and the reference.

STANDARD: Multichannel radio set must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Conduct operational check.
4. Complete equipment records.
5. Report discrepancies.

REFERENCE(S):

1. TM 08044A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2532 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2532 tasks, include all of the tasks for MOS 2531.

TASK: 2532.5.1 PREPARE MULTICHANNEL RADIO EQUIPMENT FOR
EMBARKATION

CONDITION(S): Provided an operations order/plan, unit embarkation SOP, designated equipment, personnel, tools, embarkation material, embarkation plan, and references.

STANDARD: Prepare for embarkation per the embarkation plan, the references, and appropriate safety procedures.

PERFORMANCE STEPS:

1. Adhere to all safety procedures per the references.
2. Review unit embarkation SOP.
3. Coordinate with embarkation personnel to ensure manifests are correct.

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ENCLOSURE (6)

4. Submit required data to unit embarkation officer.
5. Ensure that equipment, boxes, pallets, and vehicles are properly marked, waterproofed, secured, and banded.
6. Ensure equipment is properly tied down.
7. Conduct safety and load inspection of all vehicles.
8. Ensure arrangements have been made for the embarkation of CMS materials.
9. Ensure hazardous materiel are packaged, marked, and documented correctly.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. TM 08044A-12/1
4. TM 04041A-30/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2532 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2532 tasks, include all of the tasks for MOS 2531.

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ENCLOSURE (6)

6-I-10

MOS 2533, RADIO TELEGRAPH OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2533 is an additional MOS only, assigned to qualified Marines with any primary MOS. The tasks in this section are only the additional tasks required for MOS 2533. For a complete task list for a Marine with MOS 2533, include all of the tasks for the Marine's primary MOS.

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2533 is an additional MOS only, assigned to qualified Marines with any primary MOS. The tasks in this section are only the additional tasks required for MOS 2533. For a complete task list for a Marine with MOS 2533, include all of the tasks for the Marine's primary MOS.

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2533 is an additional MOS only, assigned to qualified Marines with any primary MOS. The tasks in this section are only the additional tasks required for MOS 2533. For a complete task list for a Marine with MOS 2533, include all of the tasks for the Marine's primary MOS.

TASK: 2533.3.1 CONDUCT COMMUNICATION OPERATIONS IN INTERNATIONAL MORSE CODE

CONDITION(S): Provided an installed continuous wave (CW) communication circuit.

STANDARD: Conduct communication operations in International Morse Code at 13 words per minute or greater.

PERFORMANCE STEPS:

1. Send International Morse Code messages.
2. Receive International Morse Code messages.

REFERENCE(S): NTP-8

ADMINISTRATIVE INSTRUCTIONS:

1. The Marine may be qualified for this task either by satisfactory completion of an established school, or by performance testing.

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2533 is an additional MOS only, assigned to qualified Marines with any primary MOS. The tasks in this section are only the additional tasks required for MOS 2533. For a complete task list for a Marine with MOS 2533m include all of the tasks for the Marine's primary MOS.

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2533 is an additional MOS only, assigned to qualified Marines with any primary MOS. The tasks in this section are only the additional tasks required for MOS 2533. For a complete task list for a Marine with MOS 2533, include all of the tasks for the Marine's primary MOS.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2533 is an additional MOS only, assigned to qualified Marines with any primary MOS. The tasks in this section are only the additional tasks required for MOS 2533. For a complete task list for a Marine with MOS 2533, include all of the tasks for the Marine's primary MOS.

Appendix J to
ENCLOSURE (6)

MOS 2534, HIGH FREQUENCY COMMUNICATION CENTRAL OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2534 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2534 tasks, include all of the tasks for MOS 2531.

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2534 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2534 tasks, include all of the tasks for MOS 2531.

TASK: 2534.2.1 INSTALL THE AN/TSC-95 COMMUNICATIONS SYSTEM

CONDITION(S): Provided an AN/TSC-95, a mission, a site, commander's guidance, and references.

STANDARD: Install the AN/TSC-95 per the commander's guidance and references.

PERFORMANCE STEPS:

1. Adhere to safety precautions per the references.
2. Site the AN/TSC-95.
3. Ground the system.
4. Connect cables.
5. Install AT-1011 antenna.
6. Place warning signs.
7. Apply power.
8. Set frequency.
9. Adjust/operate components of the system to achieve maximum operating capability:

REFERENCE(S):

1. TM 08059A-12
2. TM 5895-14/1
3. TM 5815-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2534.2.2 INSTALL THE AN/TRQ-35

CONDITION(S): Provided an AN/TRQ-35, a mission, and references.

STANDARD: Install the AN/TSC-95 in accordance with the references.

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ENCLOSURE (6)

PERFORMANCE STEPS:

1. Ground radio.
2. Install radio receiver R-2093/TRQ-35V, Spectrum monitor model RSS-4.
3. Install TSC-4B Chirpsounder transmitter T-1373/TRQ-35V.
4. Install RSC-4B Chirpsounder receiver R-2081/TRQ-35V.
5. Conduct operational check.

REFERENCE(S):

1. TM 08276A-14/5
2. TM 08726A-14/4
3. TM 08726A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2534 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2534 tasks, include all of the tasks for MOS 2531.

TASK: 2534.3.1 OPERATE THE AN/TSC-95 COMMUNICATIONS SYSTEM

CONDITION(S): Provided an AN/TSC-95, an assigned station, frequency, call sign, and reference.

STANDARD: Maintain reliable communications with other stations per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions per the reference.
2. Energize the Power Distribution Panel.
3. Conduct operational checks.
4. Select mode of operation.
5. Establish communications.
6. Troubleshoot problems to restore circuit outages.
7. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 07749A/07743A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2534 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2534 tasks, include all of the tasks for MOS 2531.

TASK: 2534.4.1 PERFORM PREVENTIVE MAINTENANCE (PM) ON THE AN/TSC-95 COMMUNICATIONS SYSTEM

CONDITION(S): Provided the AN/TSC-95, cleaning materials, and references.

STANDARD: The AN/TSC-95 should be fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Update equipment records.
4. Correct or submit for maintenance any discrepancies noted during PM.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. TM 08059A-12
4. TM 5895-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2534.4.2 PERFORM PREVENTIVE MAINTENANCE (PM) THE AN/TRQ-35

CONDITION(S): Provided an AN/TRQ-35, a mission, and references.

STANDARD: Install the AN/TSC-95 in accordance with the references.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Update equipment records.
4. Correct or submit for maintenance any discrepancies noted during PM.

REFERENCE(S):

1. TM 08276A-14/5
2. TM 08726A-14/4
3. TM 08726A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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ENCLOSURE (6)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2534 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2534 tasks, include all of the tasks for MOS 2531.

TASK: 2534.5.1 PREPARE THE AN/TSC-95 COMMUNICATIONS SYSTEM FOR EMBARKATION

CONDITION(S): Provided an operations order/plan, unit embarkation SOP, designated equipment, personnel, tools, embarkation materiel, embarkation plan, and references.

STANDARD: Prepare for embarkation per the embarkation plan, the references, and appropriate safety procedures.

PERFORMANCE STEPS:

1. Adhere to all safety procedures per the references.
2. Review unit embarkation SOP.
3. Coordinate with embarkation personnel to ensure manifests are correct.
4. Submit required data to unit embarkation officer.
5. Ensure that equipment, boxes, pallets, and vehicles are properly marked, waterproofed, secured, and banded.
6. Ensure AN/TSC-95 is properly tied down.
7. Conduct safety and load inspection of all vehicles.
8. Ensure arrangements have been made for the embarkation of CMS materials.
9. Ensure hazardous materiel are packaged, marked, and documented correctly.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. TM 08059A-12
4. TM 5895-14/1
5. TM 5815-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2534 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2534 tasks, include all of the tasks for MOS 2531.

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ENCLOSURE (6)

6-K-5

MCO 1510.83A
3 FEB 93

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MOS 2535, FLEET SATCOM TERMINAL OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2535 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2535 tasks, include all of the tasks for MOS 2531.

TASK: 2535.1.1 PLAN AN AN/TSC-96 LINK

CONDITION(S): Provided a mission, satellite overlay, and references.

STANDARD: Plan an AN/TSC-96 link per the references.

PERFORMANCE STEPS:

1. Analyze mission.
2. Coordinate with Comm Center Chief.
3. Determine Logistic Support.
4. Determine power requirements.
5. Draft plan.
6. Submit plan for review.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. TM 08166A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2535 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2535 tasks, include all of the tasks for MOS 2531.

TASK: 2535.2.1 INSTALL THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL

CONDITION(S): Provided an AN/TSC-96, a mission, appropriate equipment and personnel, and references.

STANDARD: Install the AN/TSC-96 per the references.

PERFORMANCE STEPS:

1. Adhere to safety precautions per the references.
2. Ground the system.
3. Connect data cables.
4. Connect power cables.

5. Install environment control unit (ECU).
6. Erect DMC-122 high gain SATCOM antenna.
7. Apply power.
8. Set frequency.
9. Adjust/operate components of the system to achieve maximum operating capability.

REFERENCE(S):

1. TM 08166A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2535 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2535 tasks, include all of the tasks for MOS 2531.

TASK: 2535.3.1 OPERATE THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL

CONDITION(S): Provided an AN/TSC-96, an assigned station, frequencies, call sign, and references.

STANDARD: Maintain reliable communications with other stations on the net per the reference.

PERFORMANCE STEPS:

1. Adhere to safety precautions per the reference.
2. Conduct operational check.
3. Establish communication on the net.
4. Troubleshoot problems.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 08166A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2535 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2535 tasks, include all of the tasks for MOS 2531.

TASK: 2535.4.1 PERFORM PREVENTIVE MAINTENANCE (PM) ON THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL

CONDITION(S): Provided the AN/TSC-96, cleaning materials, and references.

STANDARD: The AN/TSC-96 should be fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Conduct operational check.
4. Update equipment records.
5. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. TM 08166A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2535 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2535 tasks, include all of the tasks for MOS 2531.

TASK: 2535.5.1 PREPARE THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL FOR EMBARKATION

CONDITION(S): Provided an operations order/plan, unit embarkation SOP, designated equipment, personnel, tools, embarkation materiel, embarkation plan, and references.

STANDARD: Prepare for embarkation per the embarkation plan, the references, and appropriate safety procedures.

PERFORMANCE STEPS:

1. Adhere to all safety procedures per the references.
2. Review unit embarkation SOP.
3. Coordinate with embarkation personnel to ensure manifests are correct.
4. Submit required data to unit embarkation officer.
5. Ensure that equipment, boxes, pallets, and vehicles are properly marked, waterproofed, secured, and banded.
3. Ensure AN/TSC-96 is properly tied down.

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7. Conduct safety and load inspection of all vehicles.
8. Ensure arrangements have been made for the embarkation of CMS materials.
9. Ensure hazardous materiel are packaged, marked, and documented correctly.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. TM 08166A

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2535 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2535 tasks, include all of the tasks for MOS 2531.

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ENCLOSURE (6)

MOS 2536, GROUND MOBILE FORCES SATCOM OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2536 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2536 tasks, include all of the tasks for MOS 2531.

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2536 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2536 tasks, include all of the tasks for MOS 2531.

TASK: 2536.2.1 INSTALL THE AN/TSC-85B COMMUNICATION TERMINAL, SATELLITE

CONDITION(S): Provided AN/TSC-85B, power source, cryptographic hardware and software, and the reference.

STANDARD: Install the AN/TSC-85B per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Ground equipment.
3. Install cryptographic equipment in the van, if required.
4. Locate sighting points.
5. Assemble antenna support structure.
6. Assemble dish antenna.
7. Install antenna cables.
8. Connect power cables.
9. Make final antenna adjustments.
10. Install radiation hazard fence.
11. Install external user signal cables.
12. Provide for local security.

REFERENCE(S):

1. TM 11-5895-1128-10
2. TM 11-5895-1433-12-2
3. TM 11-5985-372-13-1
4. TM 11-5895-1433-12-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2536.2.2 INSTALL THE AN/TSC-93B GROUND MOBILE FORCES
(GMF) SATELLITE COMMUNICATIONS TERMINAL

CONDITION(S): Provided AN/TSC-93B, power source, cryptographic hardware and software, and the reference.

STANDARD: Install the AN/TSC-93B per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Ground equipment.
3. Install cryptographic equipment in the van, if required.
4. Locate sighting points.
5. Assemble antenna support structure.
6. Assemble dish antenna.
7. Install antenna cables.
8. Connect power cables.
9. Make final antenna adjustments.
10. Install radiation hazard fence.
11. Install external user signal cables.
12. provide for local security.

REFERENCE(S):

1. TM 11-5895-1127-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2536.2.3 INSTALL KG-94A CRYPTOGRAPHIC EQUIPMENT

CONDITION(S): Provided a KG-94A, cryptographic hardware and software, designated TACSAT equipment, and the references.

STANDARD: Install KG-94A per the references.

PERFORMANCE STEPS:

1. Connect KG-94A to designated equipment.
2. Apply power.
3. Load software.
4. Conduct operational check.
5. Perform updates as required.

REFERENCE(S):

1. TM 11-5810-365-10
2. TM 11-5810-365-23
3. NTP-4

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4. TM 11-5895-1434-34
5. TM 11-5895-1433-12-1
6. TM 11-5895-1433-12-2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2536.2.4 INSTALL KY-57/TSEC CRYPTOGRAPHIC EQUIPMENT

CONDITION(S): Provided a KY-57 TSEC, software, designated TACSAT equipment, and the references.

STANDARD: Install KY-57 TSEC per the references.

PERFORMANCE STEPS:

1. Apply power.
2. Load software.
3. Conduct operational check.

REFERENCE(S):

1. NTP-4
2. TM 11-5895-1434-34
3. TM 11-5895-1433-12-1
4. TM 11-5895-1433-12-2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2536 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2536 tasks, include all of the tasks for MOS 2531.

TASK: 2536.3.1 OPERATE THE AN/TSC-85B COMMUNICATION TERMINAL,
SATELLITE

CONDITION(S): Provided an installed AN/TSC-85B and the reference.

STANDARD: Operate the AN/TSC-85B per the reference.

PERFORMANCE STEPS:

1. Ground equipment.
2. Power up shelter.
3. Acquire satellite.
4. Tune transmitter.
5. Tune receiver.
6. Maintain Circuit.
7. Perform short term shutdown and startup.

8. Power down shelter.
9. Perform troubleshooting procedures.

REFERENCE(S):

1. TM 11-5895-1128-10
2. TM 11-5895-1433-12-2
3. TM 11-5985-372-13-1
4. TM 11-5895-1433-12-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2536.3.2 OPERATE THE AN/TSC-93B GROUND MOBILE FORCES
(GMF) SATELLITE COMMUNICATIONS TERMINAL

CONDITION(S): Provided an installed AN/TSC-93B and the
reference.

STANDARD: Operate the AN/TSC-93B per the reference.

PERFORMANCE STEPS:

1. Ground equipment.
2. Power up shelter.
3. Acquire satellite.
4. Tune transmitter.
5. Tune receiver.
6. Maintain Circuit.
7. Perform short term shutdown and startup.
8. Power down shelter.
9. Perform troubleshooting procedures.

REFERENCE(S):

1. TM 11-5895-1127-10
2. TM 11-5895-1434-34
3. TM-5985-372-13-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2536 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2536 tasks, include all of the tasks for MOS 2531.

TASK: 2536.4.1 PERFORM PREVENTIVE MAINTENANCE (PM) ON GMF TACSAT EQUIPMENT

CONDITION(S): Provided designated equipment, cleaning materials, and the reference.

STANDARD: Equipment must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Check operation of equipment.
4. Complete equipment records.
5. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. MCO P3000.11
3. MCBUL 3000 Series
4. TM 11-5895-1433-12-2
5. TM 11-5895-1433-12-1
6. TM 11-5895-1434-34

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2536.4.2 PERFORM PREVENTIVE MAINTENANCE (PM) ON GMF TACSAT ANTENNAE

CONDITION(S): Provided designated antennas, cleaning materials, and the references.

STANDARD: Antennae must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Check operation of equipment.
4. Complete equipment records.
5. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2

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2. MCO P3000.11
3. MCBUL 3000 Series
4. TM 11-5895-1433-12-2
5. TM 11-5895-1433-12-1
6. TM 11-5895-1434-34
7. TM 11-5985-373-13-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2536 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2536 tasks, include all of the tasks for MOS 2531.

TASK: 2536.5.1 PREPARE GMF TACSAT EQUIPMENT FOR EMBARKATION

CONDITION(S): Provided an operations order/plan, unit embarkation SOP, designated equipment, personnel, tools, embarkation materiel, embarkation plan, and references.

STANDARD: Prepare for embarkation per the embarkation plan, the references, and appropriate safety procedures.

PERFORMANCE STEPS:

1. Adhere to all safety procedures per the references.
2. Review unit embarkation SOP.
3. Coordinate with embarkation personnel to ensure manifests are correct.
4. Submit required data to unit embarkation officer.
5. Ensure that equipment, boxes, pallets, and vehicles are properly marked, waterproofed, secured, and banded.
6. Ensure vans are properly tied down.
7. Conduct safety and load inspection of all vehicles.
8. Ensure arrangements have been made for the embarkation of CMS materials.
9. Ensure hazardous materiel are packaged, marked, and documented correctly.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. TM 11-5895-1433-12-2
4. TM 11-5985-372-13-1
5. TM 11-5895-1433-12-1
6. TM 11-5895-1434-34
7. NTP-4

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2536 is a skill designator for Marines who previously held MOS 2531. They are expected to maintain their proficiency in the 2531 tasks. For a complete list of 2536 tasks, include all of the tasks for MOS 2531.

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MCO 1510.83A
3 FEB 93

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MOS 2537, RADIO CHIEF

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2537.1.1 PLAN A SINGLE CHANNEL RADIO SYSTEM

CONDITION(S): Provided a mission; concept of operations, commander's guidance, and references.

STANDARD: Design a single channel radio system which will support the concept of operations per the commander's guidance and references.

PERFORMANCE STEPS:

1. Determine equipment and personnel requirements.
2. Determine frequency requirements.
3. Plan net control functions/use of collective call signs.
4. Plan RWI operations.
5. Plan retransmission operations.
6. Plan Saville Advanced Remote Keying (SARK) operations.
7. Determine battery requirements.
8. Draft the radio plan.
9. Submit draft for approval.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30 Appendix D
3. FM 24-18

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.1.2 PLAN UHF MULTICHANNEL RADIO COMMUNICATIONS SYSTEM

CONDITION(S): Provided a mission, concept of operations, commander's guidance, and references.

STANDARD: Plan a multichannel system which will support the concept of operations per the commander's guidance and references.

PERFORMANCE STEPS:

1. Determine equipment and personnel requirements.
2. Coordinate with the staff to determine specific requirements.
3. Coordinate channelization with wire plan.
4. Draft the plan.
5. Submit the draft for review.

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REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30
3. FM 21-31

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.1.3 PLAN SHF COMMUNICATIONS

CONDITION(S): Provided a requirement to set up at least one SHF link, cut sheets and references.

STANDARD: Develop a plan in accordance with the references.

PERFORMANCE STEPS:

1. Determine antenna site based on:
 - a. Distance between sites.
 - b. Accessibility.
 - c. Terrain.
2. Plot the profile chart.
3. Determine the antenna elevation angles (horizontal angles).
4. Determine the scatter angle (effective angular distance).
5. Determine the performance margin/complete reliability sheet.
6. Plan for alternatives if predicted performance margin is negative.
7. Draft the plan.
8. Submit the draft for review.

REFERENCE(S):

1. TM 08044A-12/1
2. TM 04041A-30/3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.1.4 PLAN SATCOM

CONDITION(S): Provided with concept of operations, commander's guidance, and references.

STANDARD: Develop the plan to provide satellite communications connectivity in accordance with the references.

PERFORMANCE STEPS:

1. Analyze the concept of operations.
2. Consolidate user requirements.

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3. Identify appropriate satellite terminal equipment.
 - a. UHF Satellite Systems.
 - b. Ground Mobile Force SHF Satellite Systems.
4. Identify essential trunks and circuits (both voice and data) for initial Command and Control capabilities.
5. Identify circuits and trunks (both voice and data) which this media will serve as backup media.
6. Select the operation mode most advantageous to the concept of operation.
7. Request termination access to designated NAVCOMSTA or DCA entry station using NTP-4, chapter 4 format.
8. Develop a UHF satellite system plan.
9. Submit the plan for review.

REFERENCE(S):

1. Applicable NAVCAMS Inst C2300
2. USAISC Operation and Control Procedures for the GMF Satellite Communications System
3. DCA Circular 800-70-1
4. Joint Pub 6-05.4
5. TM 08167A-14/1
6. NTP-4, Chapter 4
7. TM 11-5895-1127-20
8. TM 11-5895-1128-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 25375 PLAN ANDVT OPERATIONS

CONDITION(S): Provided a concept of operations, commander's guidance, and references.

STANDARD: Plan the employment of ANDVT terminals to support the concept of operations.

PERFORMANCE STEPS:

1. Analyze the concept of operations.
2. Consolidate user requirements.
3. Draft plan.
4. Submit plan for review.

REFERENCE(S):

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.1.6 CONDUCT PROPAGATION PREDICTION

CONDITION(S): Provided a mission, concept of operations, and references.

STANDARD: Determine the number of frequencies required within each network to be established and perform system profile and frequency propagation analysis to determine the most effective range of frequencies in accordance with the reference.

PERFORMANCE STEPS:

1. Select Terrain Resources Analysis Program (TRAP) from the SPEED Main Program Selection Screen.
2. Enter site information.
3. Enter site identifiers.
 - a. Radio type.
 - b. Band and frequency.
 - c. Coordinates.
 - d. Antenna heights.
 - e. Elevations.
4. Generate profile.
5. Evaluate path reliability.
6. Exit TRAP and return to Main Program Selection.
7. Select CHIRPSOUNDER Integrated MUF Prediction System (CHIMPS) Program.
8. Enter values for solar parameters.
9. Select CHIMPS parameters.
 - a. Transmitter frequency.
 - b. Emission type.
 - c. Terrain type.
10. Enter new site data.
11. Select CHIMPS Analysis Option to perform single link analysis.
 - a. Predict MUF, FOT, and LUF values for the link for a 24-hour period using the Frequency Prediction Table.
 - b. Analyze signal strength prediction at the receiver.
 - c. Analyze Groundwave Range and Strength Calculations.
 - d. Perform interference analysis to determine interference or jamming effects on the link.

REFERENCE(S):

1. Systems Planning, Engineering and Evaluation Device (SPEED)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.1.7 PLAN INTEGRATION OF A TACTICAL COMMUNICATION
SYSTEM INTO DCS

CONDITION(S): Provided with concept of operations, commander's
guidance, and references.

STANDARD: Participate with the planning functions required to
integrate the MAGTF communications system into the Defense
Communications System.

PERFORMANCE STEPS:

1. Analyze the concept of operations.
2. Consolidate user requirements.
3. Identify transmission media.
4. Identify essential trunks and circuits (both voice and
data) for initial Command and Control capabilities.
5. Identify circuits and trunks (both voice and data) which
this media will serve as backup media.
6. Select the operation mode most advantageous to the concept
of operation.
7. Request termination access to designated NAVCOMSTA.
8. Develop a UHF satellite system plan which will provide
either point to point or netted operations.
9. Request access for AFSATCOM/FLTSATCOM system usage.
10. Develop a plan which will utilize the AN/TSC-85A and
AN/TSC-93A Satellite terminals.
11. Originate SHF Satellite Access Request Message.
12. Originate TSR for submittal to DECCO.
13. Draft plan.
14. Submit plan for review.

REFERENCE(S):

1. USAISC Operation and Control Procedures for the GMF
Satellite Communications System
2. DCA Circular 800-70-1
3. Joint Pub 6-05.4
4. TM 11-5895-1128-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2537.2.1 SUPERVISE INSTALLATION OF RADIO EQUIPMENT

CONDITION(S): Provided designated equipments, personnel, tools, and radio plan, and references.

STANDARD: Ensure radio equipment installation is accomplished per the radio plan and the references.

PERFORMANCE STEPS:

1. Inspect installation procedures.
2. Inspect security procedures.
3. Inspect safety procedures.
4. Correct discrepancies.

REFERENCE(S):

1. Applicable TM'S

ADMINISTRATIVE INSTRUCTIONS: This task applies to the radio equipment that is required in the tasks to develop radio plans in duty area 2.

TASK: 2537.2.2 SUPERVISE INSTALLATION OF MOBILE ELECTRIC POWER GENERATION SYSTEMS (MEPGS)

CONDITION(S): Provided radio equipment requiring electric power, MEPGS, and references.

STANDARD: Direct installation of MEPGS to meet the power requirements of the radio plan per the references.

PERFORMANCE STEPS:

1. Inspect installation procedures.
2. Inspect security procedures.
3. Inspect safety procedures.
4. Correct discrepancies.

REFERENCE(S):

1. TM 2000-15/2
2. FM 20-31
3. TM 5-765
4. TM 5-766

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.2.3 SUPERVISE THE INSTALLATION OF ANDVT EQUIPMENT

CONDITION(S): Provided Annex K, terminal equipment, commander's guidance, and references.

STANDARD: Direct the installation of ANDVT terminals to support the concept of operations in accordance with the references.

PERFORMANCE STEPS:

1. Inspect installation procedures.
2. Inspect security procedures.
3. Inspect safety procedures.
4. Correct discrepancies.

REFERENCE(S):

1. TM 09090A-12/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2537.2.4 SUPERVISE INSTALLATION OF FIELD EXPEDIENT ANTENNAS

CONDITION(S): Provided locally available materials, designated type of antenna, assigned radio, and lost or broken antenna.

STANDARD: Direct the construction of an expedient antenna which will restore radio communication caused by lost or broken antenna using construction guidelines in the references.

PERFORMANCE STEPS:

1. Determine length of antenna.
2. Gather required materials.
3. Adhere to safety procedures.
4. Construct the antenna.
5. Restore radio communication.

REFERENCE(S):

1. FM 24-18
2. Field Antenna Handbook

ADMINISTRATIVE INSTRUCTIONS:

1. This task applies to constructing field expedients for the following antennae:
 - a. VHF ground plane.
 - b. Vertical whip.
 - c. Yagi.
-

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ENCLOSURE (6)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2537.3.1 SUPERVISE EXECUTION OF RADIO COMMUNICATION PLAN

CONDITION(S): Provided Annex K, a tactical field scenario, personnel, designated equipment, topographic map, local SOP, and references.

STANDARD: Ensure that the radio communication is accomplished in accordance with the reference.

PERFORMANCE STEPS:

1. Supervise transportation/embarkation of equipment.
2. Supervise installation of the radio system.
3. Supervise operation of radio system.
4. Supervise COMSEC.
5. Supervise Operation System Control.
6. Supervise TECHCONFAC.
7. Supervise ECCM procedures.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-18

ADMINISTRATIVE INSTRUCTIONS: This task applies to all equipment and procedures required in the task of duty area 1 Plan.

TASK: 2537.3.2 SUPERVISE SINGARS NET CONTROL FUNCTIONS

CONDITION(S): Provided designed equipment, concept of operation, commanders guidance and references.

STANDARD: Ensure a reliable frequency hopping net per the reference.

PERFORMANCE STEPS:

1. Prepare for net opening.
2. Direct net ID change.
3. Direct keypad sync time loading.
4. Supervise net opening.
5. Identify cue call procedures.
6. Confirm net update procedures.
7. Supervise retransmission operations.

REFERENCE(S):

1. TM 5820-890-10-1
2. TM 5820-890-10-5

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ADMINISTRATIVE INSTRUCTIONS: This task applies to:
AN/MRC-145

AN/PRC-119A

AN/VRC-88A

AN/VRC-92A

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2537.4.1 SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES

CONDITION(S): Provided communication supply and maintenance management files and records, and references.

STANDARD: Ensure compliance with maintenance management procedures and inspect maintenance/supply support coordination per the local SOP, Marine Corps doctrine, and the references.

PERFORMANCE STEPS:

1. Review orders and directives pertaining to MIMMS/SASSY.
2. Ensure maintenance is performed according to schedule and echelon.
3. Ensure maintenance records are kept current.
4. Ensure timely reconciliations of maintenance management.
5. Inspect and comply with maintenance management program.
6. Ensure personnel are properly trained for their duties.
7. Inspect records and forms for accuracy and completeness.
8. Inspect modification program.
9. Inspect tool control program.
10. Inspect publication control program.
11. Inspect turnover folders/desk top procedures.
12. Review MIMMS/SASSY reports.

REFERENCE(S):

1. MCO P4790.2
2. MCO P5600.31
3. UM 4790-5
4. TM 4700-15/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

For a complete task list in this duty area for MOS 2537 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 5.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2537.6.1 CONDUCT RADIO COMMUNICATION TRAINING PROGRAM

CONDITION(S): Provided MCO 1510.83 individual training standards for OCCFLD 25 and appropriate references.

STANDARD: Supervise the radio training in accordance with the individual training standards for OCCFLD 25.

PERFORMANCE STEPS:

1. Establish training priorities.
2. Devise training plan to increase skill level of personnel/unit.
3. Schedule participants and trainers.
4. Review lesson plans.
5. Supervise training.
6. Evaluate skill levels attained against desired levels.
7. Revise plan according to evaluation.

REFERENCE(S):

1. MCO P1200.7
2. FMFM 3-30
3. Applicable MCO'S in 1510 Series

ADMINISTRATIVE INSTRUCTIONS: (NONE)

MOS 2538, FLEET SATCOM RADIO CHIEF

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2538 is a skill designator for Marines who previously held MOS's 2535 and 2537. They are expected to maintain their proficiency in the 2535 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2538, include all of the tasks for MOS's 2535 and 2537.

TASK: 2538.1.1 PLAN A FLEET SATCOM LINK

CONDITION(S): Provided a mission, satellite overlays, frequency plan, CUDIXS support for general message traffic, and references.

STANDARD: Plan an AN/TSC-96 link per the references.

PERFORMANCE STEPS:

1. Analyze mission.
2. Develop link design plan.
3. Draft Term Request.
4. Submit plan for review.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. FTP PAC/IO INST 2000.1C
5. TM 08166A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2538.1.2 PLAN FLEET SATELLITE COMMUNICATIONS (SATCOM)
FOR A MARINE AIR GROUND TASK FORCE (MAGTF)

CONDITION(S): Provided a mission, topographical map(s) of the area, commander's guidance, Annex K, and references.

STANDARD: Plan an AN/TSC-96 link per the references.

PERFORMANCE STEPS:

1. Analyze mission.
2. Develop system design plan.
 - a. Select sites for equipment.
 - b. Determine personnel requirements.
 - c. Determine logistic support requirements.
 - d. Determine security requirements.
 - e. Determine services required by other units.

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ENCLOSURE (6)

3. Develop engineering criteria.
 - a. Consider equipment noise levels.
 - b. Consider facility configurations.
 - c. Consider weather anticipated.
 - d. Determine supportability.
 - e. Determine power requirements.
 - f. Determine personnel training requirements.
4. Request/receive frequency/channel authorizations.
5. Prepare instructions and information on installation, operation, and maintenance of the system link.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. FTP PAC/IO INST 2000.1C
5. TM 08166A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2538 is a skill designator for Marines who previously held MOS's 2535 and 2537. They are expected to maintain their proficiency in the 2535 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2538, include all of the tasks for MOS's 2535 and 2537.

TASK: 2538.2.1 DIRECT INSTALLATION OF THE AN/TSC-96 SATELLITE COMMUNICATIONS (SATCOM) CENTRAL

CONDITION(S): Provided designated equipments, personnel, tools, SATCOM plan, and references.

STANDARD: Ensure AN/TSC-96 installation is accomplished per the SATCOM plan and the references.

PERFORMANCE STEPS:

1. Assess installation requirements.
2. Assign personnel.
3. Inspect for installation procedures.
4. Inspect safety procedures.
5. Correct discrepancies.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4

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ENCLOSURE (6)

4. FTP PAC/IO INST 2000.1C
5. TM 08166A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2538 is a skill designator for Marines who previously held MOS's 2535 and 2537. They are expected to maintain their proficiency in the 2535 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2538, include all of the tasks for MOS's 2535 and 2537.

TASK: 2538.3.1 EXECUTE THE FLEET SATELLITE COMMUNICATIONS (SATCOM) PLAN FOR A MARINE AIR GROUND TASK FORCE (MAGTF)

CONDITION(S): Provided Annex K, a tactical field scenario, personnel, designated equipment, topographic map, local SOP, and references.

STANDARD: Ensure that the fleet SATCOM communication is accomplished per the references.

PERFORMANCE STEPS:

1. Control transportation/embarkation of equipment.
2. Direct installation of the fleet SATCOM system.
3. Control operation of equipment.
4. Control operation of fleet SATCOM system.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. FTP PAC/IO INST 2000.1C
5. TM 08166A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2538 is a skill designator for Marines who previously held MOS's 2535 and 2537. They are expected to maintain their proficiency in the 2535 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2538, include all of the tasks for MOS's 2535 and 2537.

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2538 is a skill designator for Marines who previously held MOS's 2535 and 2537. They are expected to maintain their proficiency in the 2535 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2538, include all of the tasks for MOS's 2535 and 2537.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2538 is a skill designator for Marines who previously held MOS's 2535 and 2537. They are expected to maintain their proficiency in the 2535 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2538, include all of the tasks for MOS's 2535 and 2537.

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ENCLOSURE (6)

MOS 2539, GROUND MOBILE FORCES SATCOM RADIO CHIEF

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2539 is a skill designator for Marines who previously held MOS's 2536 and 2537. They are expected to maintain their proficiency in the 2536 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2539, include all of the tasks for MOS's 2536 and 2537.

TASK: 2539.1.1 PLAN A GMF SATCOM LINK

CONDITION(S): Provided a mission, commander's guidance, Annex K, and references.

STANDARD: Plan a GMF TACSAT link per the references.

PERFORMANCE STEPS:

1. Analyze mission.
2. Develop link design plan.
3. Develop engineering criteria.
4. Request/receive frequency/channel authorization.
5. Prepare instructions and information on installation, operation, and maintenance of the link.
6. Submit plan for review.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. TM 11-5895-1433-12-2
5. TM 11-5985-372-13-1
6. TM 11-5895-1433-12-1
7. TM 11-5895-1434-34

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2539.1.2 DRAFT SATELLITE ACCESS REQUEST

CONDITION(S): Provided the requirement and references.

STANDARD: Draft the request per the references.

PERFORMANCE STEPS:

1. Identify support organizations.
2. Identify termination requirements.
3. Establish liaison with supporting organizations.
4. Draft the request.

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ENCLOSURE (6)

5. Submit request for review.

REFERENCE(S):

1. NTP-4
2. MOP 178

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2539 is a skill designator for Marines who previously held MOS's 2536 and 2537. They are expected to maintain their proficiency in the 2536 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2539, include all of the tasks for MOS's 2536 and 2537.

TASK: 2539.2.1 DIRECT INSTALLATION OF GMF SATELLITE COMMUNICATIONS (TACSAT) SITE

CONDITION(S): Provided designated equipments, personnel, tools, TACSAT plan, and references.

STANDARD: Ensure installation is accomplished per the TACSAT plan and the references.

PERFORMANCE STEPS:

1. Assess installation requirements.
2. Assign personnel.
3. Inspect installation procedures.
4. Inspect safety procedures.
5. Correct discrepancies.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. TM 11-5895-1433-12-2
5. TM 11-5895-1433-12-1
6. TM 11-5895-1434-34

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2539.2.2 DIRECT INSTALLATION OF GMF SATELLITE COMMUNICATIONS (TACSAT) SYSTEM

CONDITION(S): Provided designated equipments, personnel, tools, TACSAT plan, and references.

STANDARD: Ensure installation is accomplished per the TACSAT plan and the references.

PERFORMANCE STEPS:

1. Assess installation requirements.

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2. Assign personnel.
3. Inspect for correct installation procedures.
4. Inspect security procedures.
5. Inspect safety procedures.
6. Correct discrepancies.

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. TM 11-5895-1433-12-2
5. TM 11-5895-1433-12-1
6. TM 11-5895-1434-34
7. TM 11-5985-372-13-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2539 is a skill designator for Marines who previously held MOS's 2536 and 2537. They are expected to maintain their proficiency in the 2536 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2539, include all of the tasks for MOS's 2536 and 2537.

TASK: 2539.3.1 SUPERVISE EXECUTION OF TACSAT PLAN

CONDITION(S): Provided Annex K, personnel, designated equipment, and references.

STANDARD: Ensure that the GMF TACSAT communication is accomplished per the references.

PERFORMANCE STEPS:

1. Supervise transportation/embarkation of equipment.
2. Supervise installation of the GMF TACSAT system.
3. Supervise operation of GMF TACSAT system.
4. Supervise COMSEC procedures.
5. Supervise ECCM procedures.
6. Supervise the programming of LRM's and TSSP's

REFERENCE(S):

1. FMFM 3-30
2. OPNAVINST 5510.1
3. NTP-4
4. TM 11-5895-1433-12-2

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ENCLOSURE (6)

5. TM 11-5895-1433-12-1
6. TM 11-5895-1434-34
7. TM 11-5985-372-13-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2539 is a skill designator for Marines who previously held MOS's 2536 and 2537. They are expected to maintain their proficiency in the 2536 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2539, include all of the tasks for MOS's 2536 and 2537.

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2539 is a skill designator for Marines who previously held MOS's 2536 and 2537. They are expected to maintain their proficiency in the 2536 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2539, include all of the tasks for MOS's 2536 and 2537.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2539 is a skill designator for Marines who previously held MOS's 2536 and 2537. They are expected to maintain their proficiency in the 2536 and 2537 tasks. For a complete list of tasks for a Marine who holds MOS 2539, include all of the tasks for MOS's 2536 and 2537.

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ENCLOSURE (6)

MOS 2542, COMMUNICATION CENTER OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2542.2.1 INSTALL AN/UXC-7 TACTICAL FACSIMILE SET

CONDITION(S): Provided with a complete AN/UXC-7 power source, carbon paper, crypto hardware and software, Annex K, local SOP, and references.

STANDARD: Install AN/UXC-7 so that it is fully operational per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Connect signal cable to AN/UXC-7 (unencrypted).
3. Connect signal cable to encryption device (encrypted).
4. Connect encryption device to AN/UXC-7.
5. Ground equipment connect power cable.
6. Perform self-test.
7. Remove paper to verify shades are correct.
8. Set switches for on-line operation.
9. Establish communication.

REFERENCE(S):

1. TM 08104A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.2.2 CONNECT STU-III/DSVT SECURE TELEPHONE TO A COMPUTER

CONDITION(S): Provided with a AN/UYK-83/85, power source, signal wire, crypto hardware and software, locally fabricated cables, Annex K, SOP, and references.

STANDARD: Install STU-III to AN/UYK-83/85 per the references.

PERFORMANCE STEPS:

1. Site the equipment.
2. Connect crypto "STU-III" cable to computer.
3. Connect single line to c-block via STU-III.
4. Perform operational check.

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ENCLOSURE (6)

REFERENCE(S):

1. FMF EUCE Combined User and Computer Operation Manual
2. NTP-3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.2.3 INSTALL FMF-END USER COMPUTER EQUIPMENT
(EUCE)

CONDITION(S): Provided with an EUCE terminal equipment, power source, crypto hardware and software, ancillary cables, and references.

STANDARD: Install EUCE so that it is fully operational per the references.

PERFORMANCE STEPS:

1. Site the equipment.
2. Setup standard configuration.
3. Connect crypto.
4. Connect modem.
5. Connect signal line.
6. Power-up system.
7. Coordinate switch settings.

REFERENCE(S):

1. FMF EUCE Combined User and Computer Operation Manual
2. NTP-3

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.2.4 INSTALL AN/MS-63A COMMUNICATIONS CENTRAL

CONDITION(S): Provided a complete AN/MS-63A, power source, crypto hardware and software, signal lines, environmental control unit (ECU), and references.

STANDARD: Install the AN/MS-63A so that it is fully operational per the references.

PERFORMANCE STEPS:

1. Site the equipment.
2. Install crypto equipment in van, if required.
3. Ground the van.
4. Connect power cable between power source and van.
5. Ensure 120 VAC on each phase.
6. Connect power cable between van and ECU.

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ENCLOSURE (6)

7. Connect ECU ducts between ECU and van.
8. Perform operational check.
9. Connect signal lines.
10. Set internal patching for on-line operation.

REFERENCE(S):

1. TM 09337A-10/1
2. TM 09337A-10/2

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.2.5 INSTALL REPRODUCTION/DISTRIBUTION FACILITY
(RDF)

CONDITION(S): Provided a complete RDF, power source, signal lines, environmental control unit (ECU), and references.

STANDARD: Install the RDF so that it is fully operational per the references.

PERFORMANCE STEPS:

1. Site the equipment.
2. Ground the van.
3. Connect power cable between power source and van.
4. Ensure 120 VAC on each phase.
5. Connect ECU to van.
6. Connect ECU to power source.
7. Perform operational check.
8. Connect signal lines.

REFERENCE(S):

1. TM 09261A-10/1
2. TM 5411-14/1
3. TM 08008C-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2542.3.1 OPERATE AN/UXC-7 TACTICAL FACSIMILE SET

CONDITION(S): Provided a fully operational on-line AN/UXC-7 and references.

STANDARD: Operate the AN/UXC-7 per the reference.

PERFORMANCE STEPS:

1. Send and receive traffic.
2. Troubleshoot as required.
3. Complete cryptographic software changeover as required.
4. Reinitialize as required.
5. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 08104A-14/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.2 LOAD ELECTRONIC VARIABLE IN TSEC/KG-84()
COMMUNICATION SECURITY EQUIPMENT

CONDITION(S): Provided a KG-84(), KYX-15, KOI-18, KYK-13, BA-1372, fill cable, and crypto software.

STANDARD: Load the software variable using appropriate equipment supplied per the reference.

PERFORMANCE STEPS:

1. Connect fill cable to KG-84 and KOI-18
2. Turn on KG-84.
3. Place LOAD/SELECT Switch in LOAD position.
4. Zeroize KG-84.
5. Locate proper key tape segment.
6. Pull key tape segment through KOI-18.
7. Place LOAD/SELECT Switch in OPERATE position.
8. Pull key tape segment through KOI-18 second time.
9. Check window for double zero indication that load was successful.
10. If load was unsuccessful, repeat steps 3 through 9 above.

REFERENCE(S):

1. KAO-184B

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Appendix Q to
ENCLOSURE (6)

TASK: 2542.3.3 EXECUTE COMMUNICATION CENTER EMERGENCY ACTION PLAN

CONDITION(S): Provided command authority to execute the plan, an Emergency Action Plan, designated equipments, personnel, tools and references.

STANDARD: Execute the Emergency Action Plan per command guidance, and references.

PERFORMANCE STEPS:

1. Receive instructions from competent authority.
2. Review the plan.
3. Execute the plan in strict accordance with the references.

REFERENCE(S):

1. OPNAVINST 5510.1
2. CSP-1
3. CMS-4

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.4 CONDUCT MESSAGE COURIER PROCEDURES

CONDITION(S): Provided a courier log, a pickup authorization list, and a courier, and a means of transportation and the reference.

STANDARD: Execute proper courier procedures per the reference.

PERFORMANCE STEPS:

1. Identify traffic to be given to the courier.
2. Log courier traffic.
3. Ensure courier is cleared to accept messages.
4. Have courier sign for messages.
5. Ensure courier has disclosure cover or briefcase.

REFERENCE(S):

1. NTP-4

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.5 PROCESS MESSAGE TRAFFIC

CONDITION(S): Provided designated equipments, Message Address Directory (MAD), command routing guide, message traffic, and references.

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ENCLOSURE (6)

STANDARD: Process message traffic per the command routing guide, and the references.

PERFORMANCE STEPS:

1. Review message.
2. Process message.

REFERENCE(S):

1. NTP-3
2. FM 24-17
3. JANAP 128
4. ACP-126
5. ACP-117
6. Message Address Directory (MAD)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.6 DRAFT A SERVICE MESSAGE

CONDITION(S): Provided with an original message requiring service and references.

STANDARD: Draft a service message per the references.

PERFORMANCE STEPS:

1. Sight original message.
 - a. Identify any errors in original message.
 - b. Determine whether message may be corrected by service or whether message should be retransmitted.
2. Draft service message.
3. Submit draft to supervisor.

REFERENCE(S):

1. NTP-3
2. JANAP 128
3. ACP-131

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.7 OPERATE FMF-EUCE

CONDITION(S): Provided with EUCE terminal equipment, crypto hardware and software, ancillary cables, and references.

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ENCLOSURE (6)

STANDARD: Operate the EUCE per the reference.

PERFORMANCE STEPS:

1. Send and receive traffic.
2. Perform word processing/computer operations.
3. Troubleshoot as required.
4. Reinitialize as required.

REFERENCE(S):

1. AN/UYK-83 DRAFT DOCUMENT

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.8 PERFORM OPERATOR/MAINTAINER PROCEDURES FOR
AN/MSC-63A COMMUNICATION CENTRAL

CONDITION(S): Provided a fully operational, on-line,
AN/MSC-63A, COMPLAN, and reference.

STANDARD: Operate the AN/MSC-63A to provide service per the
COMPLAN and the reference.

PERFORMANCE STEPS:

1. Activate System.
2. Create message.
3. Edit message.
4. Send and receive message traffic.
5. Identify traffic flow.
6. Perform function commands.

REFERENCE(S):

1. TM 09337A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2542.3.9 OPERATE REPRODUCTION/DISTRIBUTION FACILITY
(RDF)

CONDITION(S): Provided an operational RDF, local SOP, and the
reference.

STANDARD: Provide RDF services per the reference.

PERFORMANCE STEPS:

1. Receive, reproduce, and distribute message traffic.
2. Troubleshoot as required.
3. Perform operator level preventive maintenance.

REFERENCE(S):

1. TM 09261A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2542.4.1 PERFORM PREVENTIVE MAINTENANCE ON TACTICAL
COMMUNICATION CENTER EQUIPMENT

CONDITION(S): Provided designated equipment, cleaning
materials, and references.

STANDARD: Tactical communication center equipment must be free
of dirt, debris, rust, and corrosion; fully operational or
discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform PM.
3. Conduct operational check.
4. Update equipment records.
5. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. MCO P3000.11
3. MCBUL 3000 Series
4. TM 4700-15/1
5. Applicable TM'S and SL-3'S

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

For a complete task list in this duty area for MOS 2542 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 5.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

For a complete task list in this duty area for MOS 2542 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 6.

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MOS 2549, COMMUNICATION CENTER CHIEF

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2549.1.1 PLAN A TACTICAL COMMUNICATION/MESSAGE CENTER

CONDITION(S): Provided a mission, concept of operations, commander's guidance, and references.

STANDARD: Design a tactical communication/message center which will support the concept of operations per the commander's guidance and the references.

PERFORMANCE STEPS:

1. Conduct reconnaissance.
2. Determine equipment and personnel requirements.
3. Coordinate staff organization and releasing procedures.
4. Determine reproduction machine requirements.
5. Determine procedures for handling high precedence traffic.
6. Diagram message center spaces.
7. Determine cryptographic/physical security requirements.
8. Determine terminal equipment interface requirements.
9. Coordinate message drafting instructions/format with staff.
10. Coordinate comm guard shifts.
11. Coordinate lines/channelization/installation priorities with radio and wire sections.
12. Publish emergency action plan.
13. Draft the communication/message center plan.
14. Submit draft for review.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30 Appendix D
3. NTP-3
4. NTP-4
5. OPNAV 5510.1G
6. CSP 1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2549.1.2 DRAFT COMMUNICATION CENTER EMERGENCY ACTION
PLAN (EAP)

CONDITION(S): Provided inventory of CMS materials, available
destruction devices. commander's guidance, and references.

STANDARD: Write EAP to provide for appropriate response to
possible emergencies per the commander's guidance and
reference.

PERFORMANCE STEPS:

1. Analyze requirement.
2. Consider types of emergencies-accidental hostile action.
3. Consider stage threats for hostile action emergencies.
4. Evaluate emergency destruction factors.
5. Consider emergency planning measures.
6. Determine destruction methods required for specific
materials.
7. Write EAP.
8. Submit EAP to commander for signature.

REFERENCE(S):

1. CSP-1
2. FMFM 3-30
3. NTP-4
4. CMS-4
5. OPNAVINST 5510.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2549.1.3 DRAFT COMMUNICATIONS GUARD SHIFT

CONDITION(S): Provided a requirement to shift guard, local
SOP, and reference.

STANDARD: Draft guard shift in strict accordance with the
references.

PERFORMANCE STEPS:

1. Determine addressees.
2. Establish liaison with action addressees.
3. Determine effective start and termination times.
4. Determine guard list requirements.
5. Determine general message requirements.
6. Determine special cross service/allied procedures per
local SOP.
7. Draft appropriate comm guard shift.

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ENCLOSURE (6)

REFERENCE(S):

1. NTP-4
2. FMFM 3-30
3. NWP-11
4. DCA Circulars
5. JANAP 128
6. ACP 126

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2549.2.1 SUPERVISE INSTALLATION OF A TACTICAL
COMMUNICATION CENTER

CONDITION(S): Provided commanders guidance, mission, Annex K,
and the appropriate references.

STANDARD: Supervise the installation of a tactical
communication/message center which will support the concept of
operations per the commander's guidance and the references.

PERFORMANCE STEPS:

1. Implement staff organization and releasing procedures.
2. Implement courier/messenger service concept.
3. Implement records/logs/files.
4. Supervise the installation of equipment in the message
center spaces.
5. Supervise the installation of equipment per the milestone
schedule.
6. Enforce cryptographic/physical security requirements.
7. Inspect terminal equipment interface installation (AN/
UGC-74A, AN/TYC-5A, AN/MSC-63A).
8. Ensure comm guard shifts are executed as required.
9. Activate the installation of circuits and channelization as
previously prioritized with radio and wire sections.
10. Ensure PLA data base is updated.
11. Execute the communication/message center plan.

REFERENCE(S):

1. Annex K
2. FMFM 3-1
3. FMFM 3-30 Appendix D
4. NTP-3
5. NTP-4

Appendix R to
ENCLOSURE (6)

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2549.2.2 INSTALL AN/UYK-83/85 AS A DCS TERMINAL

CONDITION(S): Provided a mission, Annex K, and the appropriate references.

STANDARD: Install mode one system utilizing AUTODIN/Local Area Network in accordance with the references.

PERFORMANCE STEPS:

1. Install AN/UYK-83/85 to the KY-84C's.
2. Install TECOM to AN/UYK-83 for DCS entry.
3. Install LAN cards to AN/UYK-85 for LAN.
4. Establish connectivity via LAN.

REFERENCE(S):

1. Mode 1 Package
2. NTP-3
3. NTP-4
4. CSP-1
5. OPNA5510.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2549.3.1 SUPERVISE OPERATION OF A TACTICAL COMMUNICATION CENTER

CONDITION(S): Provided a communication/message center, personnel, Annex K, commander's guidance, local SOP, and references.

STANDARD: Supervise the communication/message center so as to provide message service in accordance with the references.

PERFORMANCE STEPS:

1. Supervise communication center security.
2. Supervise COMSEC procedures.
3. Inspect communication logs for correctness and completeness.
4. Supervise watch-to-watch inventories.
5. Supervise alternate routing procedures.
6. Control destruction of CMS software.
7. Supervise execution of communication emergency action procedures.
8. Reconfigure AN/MS-63A as necessary.

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ENCLOSURE (6)

9. Restart AN/MSC-63A.
10. Supervise update of operator data base as required.
11. Perform security officer computer functions.

REFERENCE(S):

1. NTP-3
2. JANAP 128
3. ACP-131
4. NTP-4
5. OPNAVINST 5510.1
6. ACP-122
7. CSP-1
8. CMS-4
9. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2549.3.2 SUPERVISE OPERATION OF THE
REPRODUCTION/DISTRIBUTION FACILITY (RDF)

CONDITION(S): Provided Annex K, commander's guidance, and references.

STANDARD: Supervise the operation of the Reproduction/Distribution Facility to support the concept of operations.

PERFORMANCE STEPS:

1. Reverify user requirements as mission requirements change.
2. Continue coordination with supported MAGTF elements.
3. Ensure operational status of the Internal Appointment Modules.
4. Ensure that watch sections perform scheduled maintenance cycles.

REFERENCE(S):

1. DOD 5220.22M
2. OPNAVINST 5510.1
3. TM 09261A-10/1
4. TM 5411-14/1
5. TM 08008C-10/1
6. TM 11-5815-602-10

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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ENCLOSURE (6)

TASK: 2549.3.3 DIRECT OPERATION OF THE AN/MSC-63A

CONDITION(S): Provided Annex K, commander's guidance, and references.

STANDARD: Direct the operation of the Communications Central, AN/MSC-63A to ensure adherence to both the concept of employment and Annex K.

PERFORMANCE STEPS:

1. Reevaluate user requirements for both interactive local subscribers and distant end users as circumstances and mission requirements change.
2. Continue coordination with those MAGTF elements which are being supported.
3. As required, coordinate with the agencies controlling systems through which distant-end users will interface the AN/MSC-63A.
4. Ensure operational readiness of AN/MSC-63A systems.
5. Select and supervise the operational configurations.
6. Schedule and verify system maintenance.

REFERENCE(S):

1. TM 07737B-10/1
2. TM 07737B-10/2
3. TM 5-4120-363-14
4. TM 08712A-14/1
5. TM 11-5815-602-10-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS
(MIMMS/SASSY)

TASK: 2549.4.1 SUPERVISE MAINTENANCE MANAGEMENT PROCEDURES

CONDITION(S): Provided communication supply and maintenance management files and records, and references.

STANDARD: Ensure compliance with maintenance management procedures and inspect maintenance/supply support coordination per the local SOP, Marine Corps doctrine, and the references.

PERFORMANCE STEPS:

1. Review orders and directives pertaining to MIMMS/SASSY.
2. Ensure maintenance is performed according to schedule and echelon.
3. Ensure maintenance records are kept current.
4. Ensure timely reconciliations of maintenance management.
5. Inspect and comply with maintenance management program.
6. Ensure personnel are properly trained for their duties.
7. Inspect records and forms for accuracy and completeness.

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8. Inspect modification program.
9. Inspect tool control program.
10. Inspect publication control program.
11. Inspect turnover folders/desk top procedures.
12. Review MIMMS/SASSY reports.

REFERENCE(S):

1. MCO P4790.2
2. MCO P3000.11
3. MCBUL 3000 Series
4. TM 4700-15/1
5. Applicable TM'S and SL-3'S
6. UM 4790-5
7. MCO P5215.17

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2549.4.2 DIRECT MAINTENANCE MANAGEMENT PROCEDURES

CONDITION(S): Provided communication supply and maintenance management files and records, and references.

STANDARD: Direct maintenance management procedures and inspect maintenance/supply support coordination per the local SOP, Marine Corps doctrine, and the references.

PERFORMANCE STEPS:

1. Review orders and directives pertaining to MIMMS/SASSY.
2. Direct maintenance according to schedule and echelon.
3. Ensure maintenance records are kept current.
4. Direct timely reconciliations of maintenance management.
5. Inspect and comply with maintenance management program.
6. Direct modification program.
7. Direct tool control program.
8. Direct publication control program.
9. Review MIMMS/SASSY reports.

REFERENCE(S):

1. MCO P4790.2
2. MCO P3000.11
3. MCBUL 3000 Series
4. TM4700-15/1

5. Applicable TM'S and SL-3'S
6. UM 4790-5

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

For a complete task list in this duty area for MOS 2549 include all of the tasks for the appropriate grade from MOS 2500, BASIC OPERATIONAL COMMUNICATOR, Duty Area 5.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2549.6.1 CONDUCT COMMUNICATION CENTER TRAINING PROGRAM

CONDITION(S): Provided MCO 1510.83 individual training standards for OCCFLD 25 and appropriate references.

STANDARD: Supervise the radio training in accordance with the individual training standards for OCCFLD 25.

PERFORMANCE STEPS:

1. Establish training priorities.
2. Devise training plan to increase skill level of personnel/unit.
3. Schedule participants and trainers.
4. Review lesson plans.
5. Supervise training.
6. Evaluate skill levels attained against desired levels.
7. Revise plan according to evaluation.

REFERENCE(S):

1. MCO P1200.7
2. FMFM 3-30
3. MCO 1510.83

ADMINISTRATIVE INSTRUCTIONS: (NONE)

MOS 2581, RADIO FREQUENCY MANAGEMENT TECHNICIAN

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2581 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2537, 2591, 5939, 7234, and 7242. The tasks in this section are only the additional tasks required for MOS 2581. For a complete task list for a Marine with MOS 2581, include all of the tasks for the Marine's primary MOS.

TASK: 2581.1.1 PERFORM OPERATIONAL FREQUENCY MANAGEMENT PROCEDURES

CONDITION(S): Provided with frequency management tools and references.

STANDARD: Ensure adequate frequency resources are available and frequency management tools are properly employed.

PERFORMANCE STEPS:

1. Identify frequency assignment requirements.
2. Request frequency assignments.
3. Prepare and submit frequency allocation request (DD Form 1494) to appropriate agency.
4. Consider EMC implications in all frequency allocation and assignment requests.
5. Allocate and manage assigned frequencies.
6. Maintain all references and supporting documents.
7. Conduct periodic and 5 year review of FRRS/FACTS data base (assignments).
8. Use frequency management tools.

REFERENCE(S):

1. NTIA MANUAL
2. NTP-6
3. OPNAVINST 2400.20
4. MCO 2400.2
5. MCO 2410.2
6. MCO 3430.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2581.1.2 PERFORM ADMINISTRATIVE FREQUENCY MANAGEMENT PROCEDURES

CONDITION(S): Provided frequency management tools and references.

STANDARD: Perform frequency management per the references.

PERFORMANCE STEPS:

1. Draft frequency management SOP.
2. Maintain FRRS and ASPECTS data bases for command/area.

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ENCLOSURE (6)

3. Maintain liaison with other frequency management agencies.
4. Update ACEOI's.
5. Submit frequency usage reports on time.
6. Advise communications personnel/staff on all frequency management matters.
7. Conduct frequency management program.
8. Maintain JF-12 documentation files.
9. Conduct classes on frequency management/usage for subordinate commands.
10. Create CEOI's in support of local exercises.

REFERENCE(S):

1. NTIA manual
2. NTP-6
3. OPNAVINST 2400.20
4. MCO 2400.2
5. MCO 2410.2
6. MCO 3430.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2581 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2537, 2591, 5939, 7234, and 7242. The tasks in this section are only the additional tasks required for MOS 2581. For a complete task list for a Marine with MOS 2581, include all of the tasks for the Marine's primary MOS.

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2581 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2537, 2591, 5939, 7234, and 7242. The tasks in this section are only the additional tasks required for MOS 2581. For a complete task list for a Marine with MOS 2581, include all of the tasks for the Marine's primary MOS.

TASK: 2581.3.1 OPERATE AN/TRQ-35

CONDITION(S): Provided AN/TRQ-35 and references.

STANDARD: Determine optimum propagating frequencies for HF links per the references.

PERFORMANCE STEPS:

1. Turn on transmitter.
2. Perform transmitter self test.
3. Perform setup procedures for transmitter.
4. Perform blanker programming for the transmitter.

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5. Turn on receiver.
6. Perform receiver self test.
7. Conduct normal operating procedures for the receiver.

REFERENCE(S):

1. Operating and Service Manual, RCS-4B
2. Operating and Service Manual, TCS-4B
3. Operating and Service Manual, RSS

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2581 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2537, 2591, 5939, 7234, and 7242. The tasks in this section are only the additional tasks required for MOS 2581. For a complete task list for a Marine with MOS 2581, include all of the tasks for the Marine's primary MOS.

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2581 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2537, 2591, 5939, 7234, and 7242. The tasks in this section are only the additional tasks required for MOS 2581. For a complete task list for a Marine with MOS 2581, include all of the tasks for the Marine's primary MOS.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2581 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2537, 2591, 5939, 7234, and 7242. The tasks in this section are only the additional tasks required for MOS 2581. For a complete task list for a Marine with MOS 2581, include all of the tasks for the Marine's primary MOS.

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MOS 2585, PLRS MASTER STATION OPERATOR

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

NOTE: MOS 2585 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2531, or 2537. The tasks in this section are only the additional tasks required for MOS 2585. For a complete task list for a Marine with MOS 2585, include all of the tasks for the Marine's primary MOS.

TASK: 2585.1.1 PLAN PLRS EMPLOYMENT

CONDITION(S): Provided a mission, scheme of maneuver, and the reference.

STANDARD: Plan the employment of the PLRS master station per the reference.

PERFORMANCE STEPS:

1. Develop relay and reference unit plan.
2. Develop system initial data.
3. Develop PLRS appendix to the operation order.
4. Submit plan for review.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

NOTE: MOS 2585 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2531, or 2537. The tasks in this section are only the additional tasks required for MOS 2585. For a complete task list for a Marine with MOS 2585, include all of the tasks for the Marine's primary MOS.

TASK: 2585.2.1 DIRECT THE INSTALLATION OF THE AN/TSQ-129
PLRS MASTER STATION

CONDITION(S): Provided a PLRS master station and the reference.

STANDARD: Ensure installation of the PLRS master station per the reference.

PERFORMANCE STEPS:

1. Assign personnel.
2. Pick site location.
3. Inspect installation procedures.
4. Inspect security procedures.
5. Inspect safety procedures.
6. Correct discrepancies.

REFERENCE(S):

1. TM 08848A-10/1

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ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2585.2.2 INSTALL THE AN/TSQ-129 PLRS MASTER STATION

CONDITION(S): Provided a PLRS master station and the reference.

STANDARD: Install the PLRS master station per the reference.

PERFORMANCE STEPS:

1. Site the equipment.
2. Provide security.
3. Install the primary antenna.
4. Install the optional VHF antenna, if required.
5. Connect the power source.
6. Apply power.
7. Conduct operational checks.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2585.2.3 INITIALIZE THE AN/TSQ-129 PLRS MASTER STATION

CONDITION(S): Provided a PLRS master station and the reference.

STANDARD: Initialize the PLRS master station per the reference.

PERFORMANCE STEPS:

1. Adhere to COMSEC procedures.
2. Set switches.
3. Load operational program.
4. Load cryptovariable into the secure data unit of the command response unit.
5. Enter/modify PLRS system parameters.
6. Hook PLRS user units by keyboard action.
7. Hook PLRS user units by trackball action.
8. Display PLRS user unit data.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

NOTE: MOS 2585 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2531, or 2537. The tasks in this section are only the additional tasks required for MOS 2585. For a complete task list for a Marine with MOS 2585, include all of the tasks for the Marine's primary MOS.

TASK: 2585.3.1 DIRECT OPERATION OF PLRS NETWORK

CONDITION(S): Provided an installed PLRS master station, PLRS users, and the reference.

STANDARD: Ensure proper operation of the PLRS network per the reference.

PERFORMANCE STEPS:

1. Assess PLRS network requirements.
2. Assign PLRS master station personnel.
3. Assist PLRS Employment Officer (PEO) in the assignment of users.
4. Inspect operating procedures.
5. Inspect security procedures.
6. Inspect safety procedures.
7. Direct corrective action.
8. Provide guidance on enhancing system performance.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2585.3.2 DIRECT THE OPERATION OF THE AN/TSQ-129
PLRS MASTER STATION

CONDITION(S): Provided an installed PLRS master station and the reference.

STANDARD: Ensure operation of the PLRS master station per the reference.

PERFORMANCE STEPS:

1. Assess requirements.
2. Assign personnel.
3. Supervise operations.
4. Inspect safety procedures.
5. Inspect operating procedures.
6. Direct corrective actions.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Appendix T to
ENCLOSURE (6)

TASK: 2585.3.3 CORRECT AN/USQ-90 PLRS SYSTEM ABNORMALITIES

CONDITION(S): Provided an installed PLRS master station and the reference.

STANDARD: Correct system abnormalities per the reference.

PERFORMANCE STEPS:

1. Resolve the following types of advisories:
 - a. Alert.
 - b. User unit fault.
 - c. User unit zone penetration.
 - d. User unit no track.
 - e. User unit reference quality.
 - f. Group message.
 - g. User unit not authorized message.
 - h. User unit no rekey.
 - i. User unit message.
 - j. Dispatch.
 - k. Navigational aids.
2. Update system data base, as required.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2585.3.4 OPERATE THE AN/TSQ-129 PLRS MASTER STATION

CONDITION(S): Provided an installed PLRS master station and the reference.

STANDARD: Operate the PLRS master station per the reference.

PERFORMANCE STEPS:

1. Perform initialization procedures as required.
2. Update data bases.
3. Correct abnormalities.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2585.3.5 UPDATE AN/TSQ-129 PLRS MASTER STATION
DATABASES

CONDITION(S): Provided an installed PLRS master station and
the reference.

STANDARD: Update the data bases per the reference.

PERFORMANCE STEPS:

1. Enter/update the library of PLRS user units.
2. Enter reference units into library.
3. Enter reference items into library.
4. Enter predesignated items into library.
5. Revise the MILID allocation.
6. Enter alias MILID's.
7. Enter/update areas of responsibility.
8. Enter/update navigational aids.
9. Enter/update notices.
10. Record the library.
11. Display map data.
12. Select/deselect navigational map items.
13. Modify/enter map display items.
14. Modify/record map items.
15. Load map from cartridge magnetic tape unit.
16. Delete the map in the display control console.
17. Select/deselect the displayed user units by type, group,
and track quality.
18. Modify the map scale.
19. Modify the map display offset.
20. Select/deselect the map display offset.

REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2585.3.6 PERFORM OPERATOR MALFUNCTION DIAGNOSTICS ON
THE AN/TSQ-129 PLRS MASTER STATION

CONDITION(S): Provided an installed PLRS master station and
the reference.

STANDARD: Perform malfunction diagnostics per the
reference.

PERFORMANCE STEPS:

1. Print PLRS system tabular data.
2. Print PLRS unit tabular data.

3. Print PLRS navigational aids.
4. Print PLRS predesignated items.
5. Print PLRS notices/aliases.
6. Print PLRS user unit position data.
7. Print PLRS user unit library data.
8. Enable PLRS data logging.
9. Select PLRS data logging levels.
10. Disable PLRS data logging.
11. Initialize PLRS playback mode.
12. Print and select a PLRS playback start time.
13. Select a PLRS playback rate.
14. Perform fixed/variable key emulation using the AN/UGC-74.
15. Perform reload of the display control console using the AN/UGC-74.
16. Evaluate AN/USQ-90 system/network integrity.
17. Evaluate a PLRS user unit's integrity.
18. Perform a PLRS user unit link check.
19. Clear/zeroize a PLRS user unit's cryptovariables.
20. Change the AN/USQ-90 tree allocation.
21. Enable frequency hopping mode.
22. Modify the AN/USQ-90 power levels.
23. Increase a key user unit's report rate.
24. Review and resolve advisories.
25. Update the AN/TSQ-129 map data.
26. Update the AN/TSQ-129 library data.
27. Record the AN/TSQ-129 library/map tapes.
28. Rekey and advance the AN/USQ-90 net.
29. Perform AN/USQ-90 antijam procedures.
30. Verify that the alternate master station is communicating with the primary master station.
31. Obtain date and time from timing master.
32. Perform PLRS user unit handover procedures.
33. Perform PLRS community handover procedures.
34. Detect an AN/TSQ-129 fault during system initialization.
35. Detect an AN/USQ-90 fault/alert during system operation.
36. Analyze a PLRS user unit fault (library correction).
37. Immediate action upon power failure.

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REFERENCE(S):

1. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

NOTE: MOS 2585 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2531, or 2537. The tasks in this section are only the additional tasks required for MOS 2585. For a complete task list for a Marine with MOS 2585, include all of the tasks for the Marine's primary MOS.

TASK: 2585.4.1 PERFORM PREVENTIVE MAINTENANCE ON THE AN/TSQ-129 PLRS MASTER STATION

CONDITION(S): Provided PLRS master station, cleaning materials, and the references.

STANDARD: PLRS master station must be free of dirt, debris, rust, and corrosion; fully operational or discrepancies noted for repair.

PERFORMANCE STEPS:

1. Conduct SL-3 inventory.
2. Perform routine inspection and cleaning of the PLRS master station cables.
3. Perform routine inspection and cleaning of the PLRS master station shelter.
4. Clean the AN/USH-26 tape heads and drive wheels.
5. Perform preventive maintenance on the AN/UGC-74.
6. Update equipment records.
7. Report discrepancies.

REFERENCE(S):

1. MCO P4790.2
2. TM 4700-15/1
3. TM 08848A-10/1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

NOTE: MOS 2585 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2531, or 2537. The tasks in this section are only the additional tasks required for MOS 2585. For a complete task list for a Marine with MOS 2585, include all of the tasks for the Marine's primary MOS.

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

NOTE: MOS 2585 is an additional MOS only, assigned to qualified Marines with a primary MOS of 2531, or 2537. The tasks in this section are only the additional tasks required for MOS 2585. For a complete task list for a Marine with MOS 2585, include all of the tasks for the Marine's primary MOS.

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MOS 2591, OPERATIONAL COMMUNICATION CHIEF

DUTY AREA 1 - PLAN COMMUNICATIONS SUPPORT

TASK: 2591.1.1 DRAFT PLAN FOR AMPHIBIOUS COMMUNICATIONS

CONDITION(S): Provided planning directives or orders from Commander Amphibious Task Force (CATF) and Commander Landing Force (CLF), and references.

STANDARD: Prepare draft plan to meet the amphibious communication requirements given in the directives/orders per the references.

PERFORMANCE STEPS:

1. Analyze amphibious communications requirements.
2. Coordinate liaison with ships' personnel.
3. Provide plan to communication officer.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30
3. NWP-4
4. FMFRP 3-32, TRI-MEF Communications SOP

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.2 DRAFT UNIT'S COMMUNICATION SOP

CONDITION(S): Provided the mission, T/O and T/E, directives from higher headquarters regarding the installation, operation, and maintenance of a unit's communication system, commander's guidance, and references.

STANDARD: The draft Communication SOP will prescribe and standardize the communication instructions which the unit commander desires to establish for day-to-day operational and administrative functions for the command.

PERFORMANCE STEPS:

1. Analyze mission, directives, policy guidance, and references.
2. Record/state:
 - a. Training.
 - b. Safety.
 - c. Security (physical, transmission, emission, cryptographic, COMSEC).
 - d. Command and control.
 - e. Continuing actions of Marines.
 - f. Operational procedures.

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- g. Embarkation procedures.
 - h. Maintenance.
 - i. Reports (administrative/operational).
 - j. ECCM.
 - k. Automated Data Processing (ADP).
- 3. Develop emergency action plan.
 - a. Classify items including labeling priorities.
 - b. List means of destroying data or equipment.
 - c. Outline security missions for personnel.
 - d. Designate when emergency action plan is required.
 - 4. Draft SOP.
 - 5. Submit to communication officer.
 - 6. Staff SOP for review by subordinate units.
 - 7. Incorporate input.

REFERENCE(S):

- 1. FMFM 3-30
- 2. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.3 RECOMMEND MODIFICATIONS OF ALLOWANCE

CONDITION(S): Provided with unit equipment allowance file (EAF), table of allowable material (TAM) commander's guidance and references.

STANDARD: Draft Modification of Allowance (MOA) per the references.

PERFORMANCE STEPS:

- 1. Analyze unit mission and operational requirements.
- 2. Review unit T/O AND T/E.
- 3. Identify discrepancies.
- 4. Submit to communication officer.

REFERENCE(S):

- 1. FMFM 3-1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.4 ADVISE ON LOCATION, ECHELONMENT, AND
DISPLACEMENT OF COMMAND POST

CONDITION(S): Provided with an operation plan/order,
topographic map of operation area, situation report of friendly
and enemy locations, priority of communications circuits, and
reference.

STANDARD: Describe, per the reference, the factors to be
considered in locating a command post in order that the
commander can exercise effective control, echelonment into the
operation area while maintaining continuity of communication,
and displacing the command post with minimum disruption of
communication.

PERFORMANCE STEPS:

1. Determine probable communication reliability of each
proposed site.
2. Determine trafficability as related to weather and
terrain.
3. Determine logistics requirements.
4. Submit logistics supportability during all phases of the
move(s).
5. Establish order of emplacement of equipment based on
communication priorities.

REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.5 DETERMINE TOTAL POWER REQUIREMENTS FOR
COMMUNICATIONS OPERATIONS

CONDITION(S): Provided an Annex K, and references.

STANDARD: Prepare a logistics request for external power
units, including MEPGS, citing equipment power requirements by
location to meet total power requirements to support Annex K.

PERFORMANCE STEPS:

1. Determine number of sites requiring power.
2. List equipment requiring power by site.
3. Determine total power for each site.
4. Submit anticipated support requirements for each site.
5. Determine availability of commercial power.
6. Determine circuit priorities and plan power distribution.
7. Submit draft for review.

REFERENCE(S):

1. TM 2000-15/2
2. FM 20-31
3. TM 5-765
4. TM 5-766

ADMINISTRATIVE INSTRUCTIONS: (NONE)

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TASK: 2591.1.6 DRAFT COMMUNICATIONS GUARD SHIFT

CONDITION(S): Provided a requirement to guard shift and references.

STANDARD: Prepare communications guard shift per the references.

PERFORMANCE STEPS:

1. Research the references.
2. Determine addressees.
3. Establish liaison with action addressees.
4. Determine effective start and termination times.
5. Determine guard list requirements.
6. Determine general message requirements.
7. Determine special cross service/allied procedures.
8. Draft appropriate comm guard shift.
9. Submit draft to communication officer.

REFERENCE(S):

1. NTP-4
2. Appropriate CSRF Instructions
3. NWP-11
4. FMFM 3-30
5. DCA Circulars
6. USN PLAD

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.7 MANAGE COMMUNICATIONS ADMINISTRATIVE FUNCTIONS

CONDITION(S): Provided administrative documents, forms, personnel, local policy, and references.

STANDARD: Manage daily administrative functions to ensure unit is kept in a high state of readiness for deployment.

PERFORMANCE STEPS:

1. Supervise administrative personnel.
2. Screen personnel records.
 - a. Update clearance and access data as required.
 - b. Update personnel data as required.
3. Maintain files and directives.

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4. Monitor performance and evaluation system.
5. Ensure adherence to classified materiel handling system.
6. Ensure reports submitted on time.
7. Ensure correspondence prepared per current directives.
8. Ensure turn over folders and desk top procedures maintained per current directives.
9. Maintain schedule of inspections.
10. Assist in budget preparation.
11. Ensure communication personnel participate in General Military Subjects Training.
12. Ensure message handling procedures are per current directives.
13. Identify personnel shortages and overages.

REFERENCE(S):

1. OPNAVINST 5510.1
2. Applicable Administrative Orders

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.8 CONDUCT COMMUNICATION SITE SURVEY

CONDITION(S): Provided grid coordinates of potential sites, Annex K, scheme of maneuver, commander's guidance, and references.

STANDARD: Recommend sites for communication requirements.

PERFORMANCE STEPS:

1. Conduct map reconnaissance.
2. Conduct survey.
3. Submit site reconnaissance report.

REFERENCE(S):

1. FMFM 3-1
2. FMFM 6-1A
3. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.9 DRAFT A TACTICAL SWITCHING SYSTEM PLAN

CONDITION(S): Provided an Annex K, commander's guidance, and references.

STANDARD: Draft the Tactical Switching System Plan per the references.

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PERFORMANCE STEPS:

1. Identify the tactical switching requirement.
2. Identify equipment and personnel.
3. Submit the draft plan.

REFERENCE(S):

1. FMFM 3-30
2. FM 24-20

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.10 ASSIST COMMANDER AND STAFF IN COMMUNICATION
PLANNING

CONDITION(S): Provided a communication planning requirement,
local SOP, and references.

STANDARD: Interact with staff personnel to ensure that all
communication requirements are provided for and that all
documents are prepared per the references.

PERFORMANCE STEPS:

1. Advise communication officer on communications requirements
and capabilities.
2. Draft communication estimate. Include:
 - a. Equipment requirements.
 - b. Personnel requirements.
 - c. Support requirements.
 - d. Threat capabilities.
 - e. Friendly capabilities.
3. Coordinate unit communication requirements with staff.
 - a. Communication needlines.
 - b. Special communication requirements.
 - (1) Dedicated circuits.
 - (2) Tactical data circuits.
 - c. Message handling procedures.
 - d. Communication security procedures.
 - e. Location, echelonment, and displacement of command
post.
 - f. Communication user's guide.
4. Establish liaison with external agencies.
5. Draft Annex K.
6. Draft Communication Letter of Instruction (COMM LOI).
7. Prepare staff briefings on all aspects of
communications.

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REFERENCE(S):

1. FMFM 3-1
2. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.11 DRAFT SATELLITE ACCESS REQUEST

CONDITION(S): Provided a satellite requirement and references.

STANDARD: Draft satellite access request per the reference.

PERFORMANCE STEPS:

1. Determine the requirement.
2. Establish liaison with controlling authority.
3. Identify UDRB Number.
4. Compile required information.
5. Submit draft for review.
6. Coordinate with controlling authority.

REFERENCE(S):

1. NTP-4
2. NTP-2
3. NWP-4
4. DCA Circulars
5. FMFM 3-30
6. Appropriate NCTAMS Instructions

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.12 SUPERVISE THE ADMINISTRATION FUNCTIONS OF A
COMMUNICATION INFORMATION STAFF SECTION

CONDITION(S): Provided task description, commander's guidance, and references.

STANDARD: Supervise administrative functions to ensure effective and timely control of communications systems operations and support for management control and decisions.

PERFORMANCE STEPS:

1. Supervise the preparation and dissemination of general policy guidance for the operation of communications within the unit.
2. Supervise the preparation and issuance of instructions for usage of communications systems and equipment within the unit and subordinate elements.
3. Continuously review system status and performance of communications equipment and personnel.

4. Prepare reports on communications operations and maintain historical data and files.

REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.13 PERFORM SYSTEMS PLANNING AND ENGINEERING

CONDITION(S): Provided a mission, concept of operations, commander's guidance, and references.

STANDARD: Conduct the planning and development of structured system block diagrams which integrate all MAGTF tactical networks, systems, and equipment.

PERFORMANCE STEPS:

1. Analyze the concept of operations
2. Perform a site survey or map/terrain analysis.
3. Conduct coordination with users, higher commands, subordinate commands, supporting units, and other services.
4. Determine system requirements
 - a. Circuit route planning.
 - b. Circuit switch placement.
 - c. Multichannel radio.
 - d. Tactical radio
 - e. FOCS
 - f. Cable distribution
 - g. Satellite.
 - h. PLRS
 - i. Data devices.
 - j. Protocols.
5. Plan initial network configuration and changes to meet unit displacement factors, changes to the scheme of maneuver, and to overcome poor network performance.
6. Determine size, connectivity, and throughput.
 - a. Voice users.
 - b. Data users.
7. Develop system block diagrams.
 - a. Number and type of user interfaces.
 - b. Each item of switching and transmission equipment.
 - c. Quantity and rate of data links.
 - d. Multiplexing channelization.

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8. Develop network timing plan.
9. Perform COMSEC planning.
10. Identify and allocate resources.
11. Coordinate between MAGTF levels and with higher headquarters to resolve network problems.

REFERENCE(S):

1. JCS PUB 6-05; VOL VII

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.14 RECOMMEND T/E, T/O CHANGES

CONDITION(S): Provided a T/O mission statement, a new mission, unit T/E, and references.

STANDARD: Recommend changes to the T/O and T/E to support the new mission.

PERFORMANCE STEPS:

1. Review new mission.
2. Review mission statement.
3. Review T/O and T/E.
4. Review appropriate advanced logistics orders.
5. Review any special allowances.
6. Identify required changes.
7. Recommend any increase/decrease based on above review.

REFERENCE(S):

1. MCO 5311.1 T/O Management Procedures
2. UNIT T/E (CMR)
3. MCO P4400.150 Consumer Level Supply policy Manual

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.15 CONDUCT PROPAGATION PREDICTION

CONDITION(S): Provided a mission, concept of operations, and references.

STANDARD: Determine the number of frequencies required to support each network to be established and perform system profile and frequency propagation analysis to determine the most effective range of frequencies per the reference.

PERFORMANCE STEPS:

1. Select Terrain Resources Analysis.
2. Enter site information.

3. Generate Profile.
4. Evaluate path reliability.
5. Enter CHIRPSOUNDER Integrated MUF Prediction System (CHIMPS) program.
6. Select CHIMPS analysis option.

REFERENCE(S):

1. ECAC-UM-90-060
2. Systems Planning, Engineering and Evaluation Device (SPEED) Software User's Manual

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.1.16 PLAN FOR FREQUENCY HOPPING

CONDITION(S): Provided with a concept of operation, commander's guidance, and references.

STANDARD: Plan the incorporation of planning spectrum management for frequency hopping net radios per the commander's guidance and references.

PERFORMANCE STEPS:

1. Analyze the concept of operations.
2. Utilize Systems Planning, Engineering and Evaluation Device (SPEED) to generate hopsets.
3. Provide net definition.
4. Designate net identifiers.
5. Create tag numbers.

REFERENCE(S):

1. ECAC-UM-90-060
2. Systems Planning, Engineering and Evaluation Device (SPEED) Software User's Manual

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 2 - INSTALL COMMUNICATION SYSTEMS

TASK: 2591.2.1 SUPERVISE EXECUTION OF COMMUNICATIONS PLANS
AND ORDERS

CONDITION(S): Provided with a communication plan/order, local
SOP, supporting documents, communication resources specified,
and references.

STANDARD: Provide the communications directed in the
plan/order.

PERFORMANCE STEPS:

1. Ensure employment of tactical communication systems; radio,
wire, and communication center.
2. Ensure continuing preventive maintenance.
3. Coordinate support of data/record communications.
4. Coordinate establishment of communication control.
5. Ensure continuation of messenger services.
6. Prioritize allocation of tactical communication assets.
7. Manage logistical requirements.
8. Coordinate with joint communication agencies.
9. Supervise actions of section heads.
10. Manage frequency resources within unit.
11. Update and advise the communication officer and staff.
12. Ensure comm guard shifts are effected.

REFERENCE(S):

1. FMFM 3-30
2. FMFRP 3-32, TRI-MEF Communications SOP
3. NTP-4

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.2.2 SUPERVISE ECCM TECHNIQUES

CONDITION(S): Provided Annex K, commander's guidance,
communications equipment and personnel, and references.

STANDARD: Coordinate ECCM techniques in the installation of a
communication system to reduce vulnerability to enemy EW per
the commander's guidance and the references.

PERFORMANCE STEPS:

1. Coordinate preventive ECCM requirements.
2. Coordinate remedial ECCM requirements.

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REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 3 - OPERATE COMMUNICATION SYSTEMS

TASK: 2591.3.1 ENFORCE COMMUNICATION SECURITY (COMSEC)
PROCEDURES

CONDITION(S): Provided access to personnel, COMSEC hardware and software, and references.

STANDARD: Enforce COMSEC practices, procedures, and requirements per the references.

PERFORMANCE STEPS:

1. Ensure physical, cryptographic, transmission, and emission security are maintained.
2. Establish COMSEC awareness training.
3. Advise commander and staff on security risks.
4. Report COMSEC violations.
5. Correct security violations.
6. Ensure covered circuits remain covered.
7. Conduct EW training.
8. Rehearse emergency action plan (EAP).

REFERENCE(S):

1. FMFM 3-30
2. CMS-4
3. OPNAVINST 5510.1

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.3.2 IMPLEMENT COMMAND, CONTROL, COMMUNICATION
PROTECTION (c3)

CONDITION(S): Provided a communication unit operating in the field and references.

STANDARD: Direct unit C3 efforts so that C3 procedures are followed per the references.

PERFORMANCE STEPS:

1. Determine threat to C3 systems.
2. Determine C3CM discrepancies.
3. Direct corrective measures to minimize C3 vulnerability.
4. Implement C3CM plans and orders.

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5. Submit MIJI reports.
6. Advise staff on C3CM procedures.
7. Analyze unit vulnerability to counter C3.

REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.3.3 DIRECT COMMUNICATION CONTROL (SYSCON/TECHCON)
OPERATIONS

CONDITION(S): Provided a mission, Annex K, availability of equipment and personnel, topographical map of objective area, situation report, SOP, and references.

STANDARD: Maintain communication control using procedures which provide operational status information on all unit organic communications equipment, and use centralized control necessary for remedying any difficulties through a formal circuit restoration priority system.

PERFORMANCE STEPS:

1. Review circuit restoration priorities.
2. Task technical control (techcon) efforts.
3. Supervise the activation/deactivation of circuits.
4. Supervise circuit status board maintenance.
5. Brief communications officer on communications status.
6. Supervise and make emergency adjustments to the existing communication system.

REFERENCE(S):

1. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.3.4 SUPERVISE ULCS OPERATIONS

CONDITION(S): Provided with Annex K, commander's guidance, and references.

STANDARD: Supervise the operation of digital circuit switches in accordance with the references.

PERFORMANCE STEPS:

1. Ensure the accuracy of the network traffic diagram.
2. Direct the management and control of the network by identifying changes or trouble reports on transmission and switching equipment assigned to the network.

REFERENCE(S):

1. TM 08440A-12

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2. TM 08339A-12

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.3.5 SUPERVISE THE OPERATION OF THE DIGITAL
BACKBONE NETWORK

CONDITION(S): Provided Annex K, local Commsop, commander's
guidance and references.

STANDARD: Supervise the operation of a digital backbone
network in accordance with the references.

PERFORMANCE STEPS:

1. Ensure periodic revalidation of types and quantities of
terminal equipment and any special configuration
requirements for each.
2. Reconfirm numbers, distances, and locations of nodes in the
network.
3. Provide reconfiguration for all types of internal and
external links.
4. Reconfigure as required, external network interfaces.
5. Reconfigure network COMSEC functions as required.
6. Execute reconfiguration plan based on equipment outages.
7. Update network planning data and reporting procedures to
communications staff personnel at his own and subordinate
units.

REFERENCE(S):

1. Annex K
2. TM 08339A-12
3. JCS Pub 6-05, Vol III

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.3.6 SUPERVISE OPERATION OF RADIO SYSTEM

CONDITION(S): Provided a mission, concept of operations,
designated equipment, and references.

STANDARD: Supervise the operation of a radio system in
accordance with the references.

PERFORMANCE STEPS:

1. Ensure Annex K validated.
2. Verify the concept of operations.
3. Ensure availability of radio equipment to assure optimal
operational effectiveness.
4. Coordinate manpower requirements.
5. Manage frequency requirements.
6. Modify system as required.

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REFERENCE(S):

1. Annex K
2. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

TASK: 2591.3.7 SUPERVISE HANDLING OF BATTERIES

CONDITION(S): Provided designated batteries, personnel, unit SOP and references.

STANDARD: The storage and disposal of batteries must be accomplished strictly per the references.

PERFORMANCE STEPS:

1. Assess storage and disposal requirements of batteries.
2. Assign personnel.
3. Inspect storage and disposal of batteries for:
 - a. Correct procedures.
 - b. Adherence to safety requirements.
4. Certify compliance with unit SOP and references.

REFERENCE(S):

1. TI-6135-15/3
2. DOT-E7052
3. MCO P4400.150

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 4 - MAINTAIN COMMUNICATION SYSTEMS (MIMMS/SASSY)

TASK: 2591.4.1 COORDINATE MAINTENANCE MANAGEMENT PROCEDURES FOR COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided maintenance management records (LM2/DPR), schedules, mission, T/O cover letter, T/E, Publications Listing, and references.

STANDARD: Review MIMMS/SASSY interface requirements; inspect maintenance and supply support coordination; and ensure that system controls are in place to verify status of readiness reportable end items in accordance with the references.

PERFORMANCE STEPS:

1. Review orders and directives pertaining to MIMMS/SASSY.
2. Ensure maintenance is performed according to schedule and echelon.
3. Ensure maintenance records are kept current.
4. Ensure accountability of equipment within maintenance cycle.

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5. Ensure timely reconciliations of maintenance management.
6. Inspect maintenance management program.
7. Inspect records and forms for accuracy and completeness.
8. Inspect calibration program.
9. Inspect modification program.
10. Inspect tool control program.
11. Inspect publication control program.
12. Inspect turnover folders.
13. Review MIMMS/SASSY reports.

REFERENCE(S):

1. MCO P4790.2
2. UM 4790-5
3. TM 4700-15/1
4. MCO P5600.31
5. MCO P4400.150
6. MCO 4790.1
7. UM-4400-124
8. FMFM 3-30

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 5 - EMBARK/TRANSPORT COMMUNICATIONS ASSETS

TASK: 2591.5.1 COORDINATE EMBARKATION OF COMMUNICATION ASSETS

CONDITION(S): Provided a unit embarkation order, communication electronic equipment and supplies to be embarked, embarkation plan and schedule, embarkation manifest, embark SOP, and references.

STANDARD: Coordinate the embarkation of communication-electronic equipment and supplies in accordance with the references.

PERFORMANCE STEPS:

1. Adhere to embark SOP.
2. Coordinate with embark officer.
3. Ensure adequate embark boxes are available and marked appropriately.
4. Ensure embarkation boxes are adequately waterproofed.
5. Ensure equipment is adequately waterproofed.
6. Ensure equipment and supplies are combat loaded.

Appendix U to
ENCLOSURE (6)

7. Ensure all hazardous materials are appropriately marked and documented.
8. Ensure packing lists are appropriately completed and distributed.
9. Ensure transportation is available at place of debark/embark (POD/POE).
10. Ensure air pallets/forklifts are requested.
11. Ensure rolling stock is prepared for embark.

REFERENCE(S):

1. MCO P4600.7
2. FMFM 4-6
3. FMFM 3-30
4. FMFM 4-2
5. NWP 22-6

ADMINISTRATIVE INSTRUCTIONS: (NONE)

DUTY AREA 6 - TRAIN COMMUNICATIONS PERSONNEL

TASK: 2591.6.1 MANAGE COMMUNICATION TRAINING PROGRAM

CONDITION(S): Provided unit training SOP, alpha roster, unit T/E, training records, and references.

STANDARD: Achieve a broad base of skills among communication personnel according to MOS requirements and unit cross training policy, in accordance with the references.

PERFORMANCE STEPS:

1. Identify unit training policy.
2. Identify unit requirements.
3. Identify strengths and weaknesses of communication personnel.
4. Establish training priorities.
5. Devise training plan to increase skill level of personnel/unit.
6. Determine type and frequency of training to be conducted on individual/unit basis.
7. Schedule participants and trainers.
8. Ensure supervision at all levels during conduct of training.
9. Evaluate skill levels attained against desired levels.
10. Revise plan according to evaluation.

REFERENCE(S):

1. MCO P1200.7
2. FMFM 3-30

MCO 1510.83A
3 FEB 93

3. MCO 1510.83

ADMINISTRATIVE INSTRUCTIONS: (NONE)

Appendix U to
ENCLOSURE (6)

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MCO 1510.83A
3 FEB 93

MCO 1510.83A
3 FEB 93

MCO 1510.83A
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